
























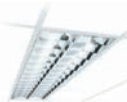








Recessed luminaires

Luminaire family	Product range	Page	Light distribution			Module dimension (mm)		Air handling	Number of lamps	Lamps			
			Symmetric	Asymmetric	Double asymmetric	In length	In width			Fluorescent			Compact fluorescent
										TL5 	TL5-C 	TL-D 	PL-L 
Savio													
	TBS760/770	2.10	•			300	300		2,3,4,6	•			
Rotaris													
	TBS740	2.18	•			n.a.	n.a.	•	I		•		
	TBS741	2.22	•			600	600	•	I		•		
Celino													
	TBS690	2.26	•			300	none	•	I	•			
	TBS692	2.28	•			none	none	•	I	•			
SmartForm													
	TBS460	2.32	•			300	300	•	1,2,3,4	•			
	TBS461/471	2.38	•			300	300		2,3,4,6	•			
TBS490													
	TBS490	2.52	•			300	none		1,2	•			
TBS600													
	TBS600	2.56	•	•	•	300	none	•	1,2	•			
Indolight													
	TBS315	2.62	•	•	•	300	150	•	1,2	•		•	
	TBS318	2.68	•	•	•	300	185	•	1,2	•		•	
	TBS330	2.86	•	•	•	300	300	•	1,2,3,4			•	
	TBS340	2.72	•	•	•	300	150	•	1,2	•		•	
EFix													
	TBS260	2.74	•			300	300	•	2,3,4	•			
TBS257													
	TBS257	2.80	•			300	300		2,3,4	•			
TBS288													
	TBS288	2.84	•			300	300		2,3,4	•			

Luminaire family	Product range	Page	Light distribution			Module dimension (mm)		Air handling	Number of lamps	Lamps			
			Symmetric	Asymmetric	Double asymmetric	In length	In width			Fluorescent			Compact fluorescent
										TL5 	TL5-C 	TL-D 	PL-L 
FBS330													
	FBS330	2.92	●			300	300	●	2,3				●
Impala													
	TBS160	2.98	●			300	300	●	2,3,4			●	
	FBS160	2.104	●			300	300		2,3				●
TBS147													
	TBS147	2.108	●			300	300		2,4			●	
TBS047													
	TBS047	2.112	●			300	300		2,4			●	
FBS163													
	FBS163	2.114	indirect			300	300		2				●
TBS105 Series													
	TBS105	2.116		●		300	none	●	1			●	
	FBS105	2.118		●		300	none	●	1				●





Philips MASTER TL5 – the perfect fit every time

Philips invented the T5 fluorescent concept in the 1990s, making Philips MASTER TL5 lamps the original 16 mm lamps. Philips has MASTER TL5 lamps to suit every application, as well as an extensive portfolio of MASTER TL5 luminaires, gear and controls.

MASTER TL5 lamps are operated on HF gear and offer the following benefits:

- up to 28% less energy consumption than T8 lamps on electromagnetic gear
- maximum energy efficiency: up to 104 lm/W
- very good color rendering
- long life of 19,000 hours (10% failure rate).



Best environmental choice

Environmentally, Philips MASTER TL5 lamps and gear offer the highest energy efficiency for fluorescent lighting, resulting in the lowest CO₂ emissions. All products are RoHS-compliant. MASTER TL5 lamps use less glass, metal and packaging, and their lower weight offers transport and recycling benefits.

www.philips.com/mastertl5



Innovative luminaires

Philips has a history of innovative advances in optic design, including the renowned OLC (Omni-directional Luminance Control) optics introduced at the time of the launch of the MASTER TL5 lamp. Continuing this tradition, our latest luminaires feature OLC micro optics. These allow luminaires to be miniaturist in design, with optimum performance in terms of light distribution, visual comfort and efficiency.



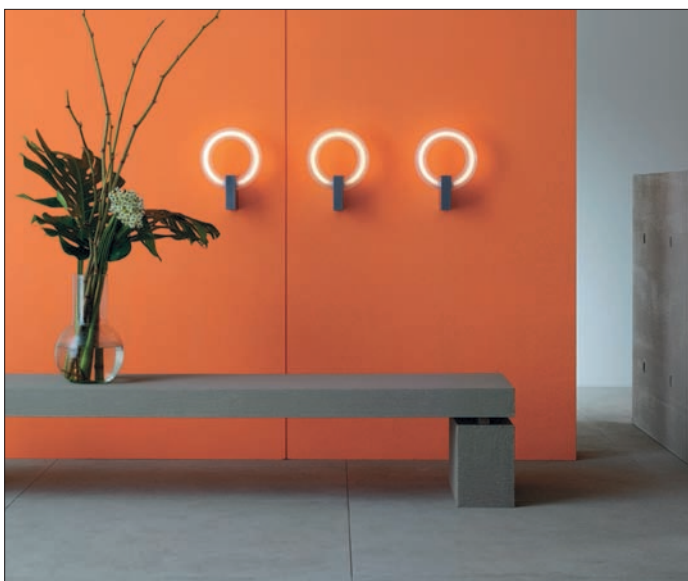
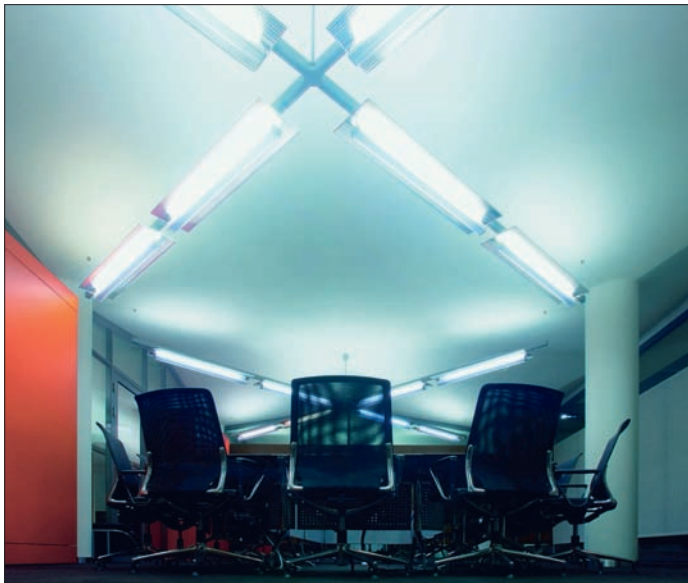
Lighting controls for MASTER TL5 lamps

Philips offers control systems that switch the lights off when an area is vacated and/or react to the level of daylight by adjusting the artificial light.



MASTER TL5 lamps with Philips electronic (HF) gear

By using Philips TL5 electronic (HF) gear you can be sure that the lamp and gear work perfectly together, because they have been designed, developed, tested and optimized for each other. (HF) gear maximizes energy savings, improves user comfort by eliminating start-up flicker and strobe effects, improves safety with over-voltage detection and extends lamp life.



Philips MASTER TL5 High Efficiency – optimal energy savings

MASTER TL5 HE lamps combine maximum energy efficiency with good light output.

- Luminous efficacy of up to 104 lm/W
- HE lamps are up to 10% more efficient than HO lamps

Philips MASTER TL5 High Output – optimum light output

MASTER TL5 High Output lamps are ideal for applications where you need more light, e.g.:

- Luminaires bounce light off the ceiling
- Indirect lighting effects such as wall-washing
- High-ceiling applications

**Philips MASTER TL5 HO 90 De Luxe – best for showing true colors**

These lamps have a color rendering index of more than 90. This means that colors appear rich and deep as they do in natural daylight. Moreover, objects are shown in their true, natural colors. Therefore these lamps are the best choice for color-critical applications.

Philips MASTER TL5 ActiViva – best for energizing people

Philips MASTER TL5 ActiViva lamps contain an optimized amount of blue light and in this way not only provide high-quality lighting, but also directly affect the way people feel. People indicate that they feel more active, vital and alert when working under Philips ActiViva lamps.

Philips MASTER TL5 HO Optiview – best for medical diagnosis

- Optimally tuned to support medical staff in visual clinical patient observation
- Improves early diagnosis of pathophysiological conditions that can be detected by changes in skin color
- Simplifies medical tasks that require good color discrimination, such as visibility of veins when taking blood samples

**Philips MASTER TL5 Secura – best protection against breakage**

- A unique protective coating makes the lamp shatterproof
- The Philips Secura coating does not degrade under the influence of temperature or UV light
- Cost-effective way to meet the relevant safety standards in the food industry (ISO22000 and HACCP)

Philips MASTER TL5 Circular lamps – best for circular forms

These lamps enable stylish luminaires for corridors, lobbies and reception areas. Unlike other T5 circular lamps, Philips MASTER TL5 Circular lamps use Amalgam technology, which helps ensure:

- More light, thanks to the wider operating temperature range
- Optimal light performance for long operation per switch-on
- Best performance in hot or cold-temperature applications

**Philips MASTER TL5 HE and HO Colored lamps – best for colored applications**

For areas where special color effects and/or color ambiances must be created, there is a range of red, green and blue MASTER TL5 lamps.

Philips MASTER TL5 Xtra lamps and HF-P Xtreme gear for TL5 – longest and most reliable life

- Extra-long, reliable life
- Lamp and ballast are designed for each other for maximum performance



Philips ActiViva – get activated

Good lighting doesn't only enable us to see, it also affects how we feel. On dull, dark days, the absence of bright light can dampen our mood and make us feel as miserable as the weather. But a ray of sunshine is sometimes all it takes to lift our spirits and make us feel invigorated. For several years now we've been working with leading universities to understand the highly complex relationship between light and well-being.

This has led to the development of Philips ActiViva lamps. These revolutionary new lamps contain an optimized amount of blue light and in this way make people feel more energized. So instead of feeling tired, people are able to stay alert and focused to concentrate on the task at hand..

ActiViva Natural lamps

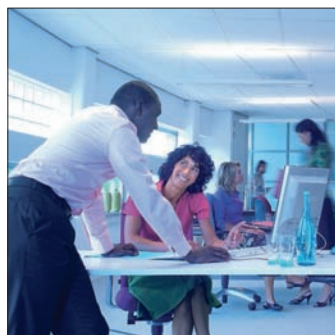
provide natural, cool light that contains 25% more blue light than existing cool-daylight lamps, and combine well with other light sources in existing installations. They are available in TL5 and TL-D versions.

**ActiViva Active lamps**

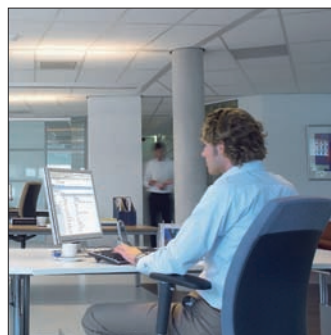
are available in TL5 and provide extremely cool light with 85% more blue light than current cool-daylight lamps. Due to the high blue light content, these lamps can create a real sky effect.

All types are retro-fittable into existing fittings, making them quick and easy to install.

www.philips.com/activiva



With Philips ActiViva lamps



With traditional lamps

**MASTER TL5 ActiViva****Active and Natural**

- 24 W, 49 W and 54 W
- Colour Rendering Index >80
- Lumen output:

24 W:	1650
49 W:	4100
54 W:	4250

**MASTER TL-D ActiViva****Natural**

- 18 W, 36 W and 58 W
- Colour Rendering Index >80
- Lumen output:

18 W:	1300
36 W:	3250
58 W:	5000

Savio TBS760/770



Savio – pure light

Featuring Philips' patented micro-lens optic technology, Savio is a complete luminaire range that offers the ideal combination of stylish design and optimum performance for both task and general lighting.

Savio has an edge-to-edge lighting appearance with a uniform and comfortable brightness impression – a real 'surface of light'. The micro-lens optic consists of a single plate and is embedded in a housing made of high-quality natural anodized aluminum. Savio ensures optimum light distribution and full glare control in compliance with the latest office-lighting norm (EN 12464-1).

Savio luminaires with Dynamic Lighting keep us feeling active by creating dynamic artificial light that varies over the course of the day or is set according to personal preference.

Savio is available as a full range: suspended, surface-mounted, recessed, free-standing and wall-mounted.

www.philips.com/lighting



Savio recessed



Savio free floor-standing



Savio wall-mounted



Savio surface-mounted



Savio suspended





Savio – surface of light

Besides outstanding lighting performance, aesthetic appeal and architectural integration were key drivers in the development of Savio. The patented micro-lens optic provides a uniform light distribution, ensuring an even and comfortable brightness impression. Completing the effect of an edge-to-edge 'surface of light', the micro-lens optic is secured by a translucent rim around the luminaire.

Micro-lens optic

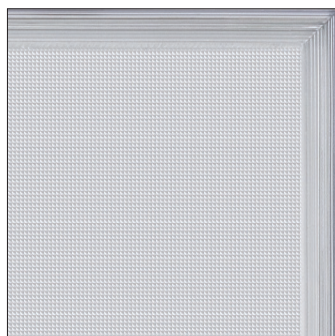
With the new patented micro-lens optic (MLO), the lamps are not directly visible and full glare control from all viewing angles is a reality (Omnidirectional Luminance Control, OLC). The micro-lens optic is highly efficient and meets the latest office standards: $L_m < 1000 \text{ cd/m}^2$ in all viewing directions at $\gamma \geq 65^\circ$ and $UGR_R < 19$ (EN 12464-1).

This means no disturbing glare on PC or laptop screens, regardless of where they are positioned in the room.

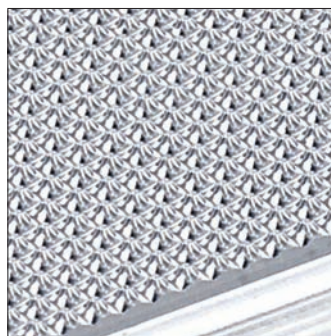
The micro-lens optic provides a uniform light distribution, ensuring an even and comfortable brightness impression – a real 'surface of light'. The micro-lens optic is secured by a translucent rim around the luminaire.

The patented micro-lens optic design uses conical lenses with inverted tops that are positioned in a square array for the best possible glare control. The optic fully justifies the designation 'micro' since there are over 35 high-precision lenses per square centimeter.

Edge-to-edge lighting




The principle

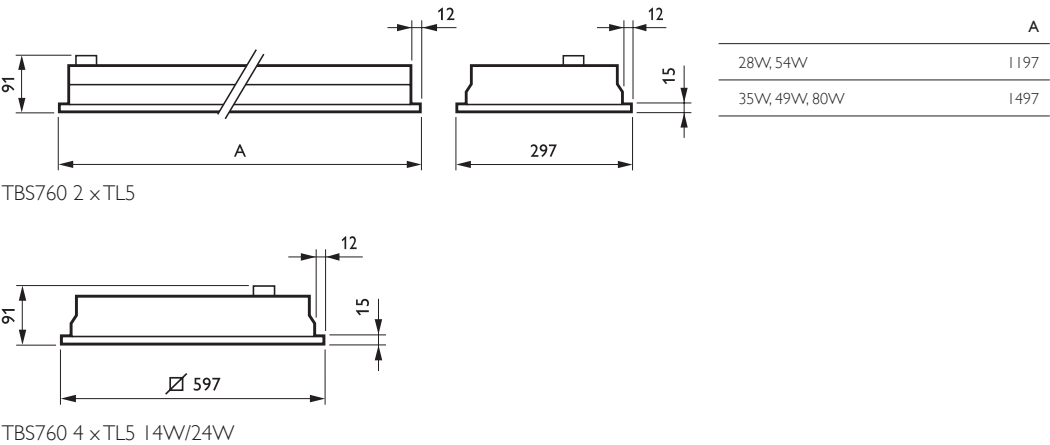


The cone



Savio			
Type	TBS760 (standard version)	Material	Housing: anodized aluminum
Ceiling grid	Module size: 300 / 600 mm Exposed tee, concealed fixed and plasterboard ceilings		Micro-lens optic: PMMA (optional is polycarbonate) Rim: polycarbonate (translucent) Mounted in a white zinc-coated sheet-steel housing
Light source	Fluorescent: 2 x or 4 x MASTER TL5 / G5 / 14, 24, 28, 35, 49, 54, 80 W	Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids and plasterboard ceilings
Lamp included	Yes (lamp color 45 l (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No	Accessory	Suspension bracket set
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR) High Frequency Regulator; touch and DALI (HFD-T)	Remarks	MLO optic ensures optimum light distribution and full glare control in all viewing directions compliant with the current norm for indoor working places (EN12464-1, UGR _r , l9, L _m < 1000 cd/m² at γ > 65°) Luminaires delivered without diffuser (ND) Dedicated ready to install versions available (KIT)
Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO)	Main applications	Office, department stores
Connection	Wieland connector (W4)		
Option	Emergency lighting: 3 hours (EL3) Lighting controls: ActiLume multi controller (ACL) Cable with CEE 7 plug (CCE) Euro fuse (FU) included Safety cable (SC)		

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



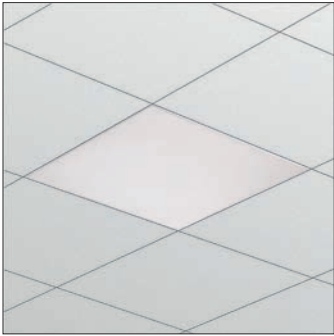


Savio TBS760/770 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO); Savio TBS770 with Dynamic Lighting facility

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS760 2x28W/840 HFP AC-MLO	8.80	749938 00
TBS760 2x35W/840 HFP AC-MLO	10.70	749945 00
TBS760 2x49W/840 HFP AC-MLO	10.70	749952 00
TBS760 2x54W/840 HFP AC-MLO	8.80	749969 00

Please contact your local Philips representative for additional configurations



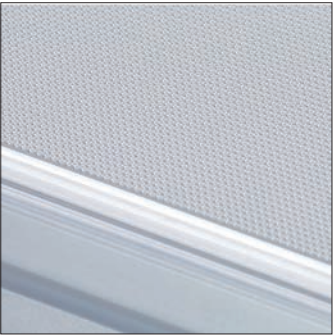
Savio TBS760/770 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO); Savio TBS770 with Dynamic Lighting facility

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS760 4x14W/840 HFP AC-MLO	8.20	749976 00
TBS760 4x14W/840 HFP ND-AC-MLO	7.20	757100 00

Please contact your local Philips representative for additional configurations

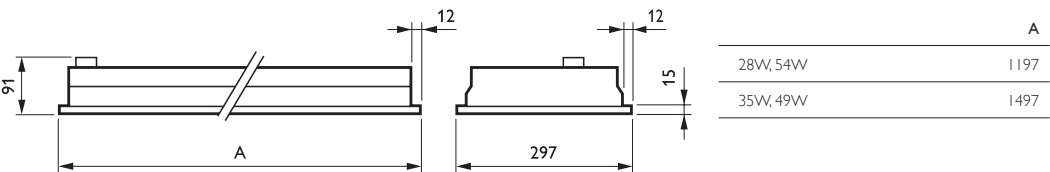
The micro-lens optic provides a uniform and comfortable light distribution



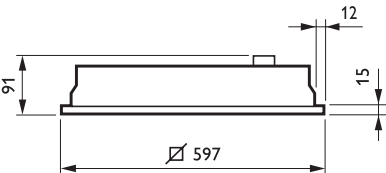
Savio			
Type	TBS770 (Dynamic Lighting version)	Material	Housing: anodized aluminum
Ceiling grid	Module size: 300 / 600 mm Exposed tee, concealed fixed and plasterboard ceilings		Micro-lens optic: PMMA (optional is polycarbonate) Rim: polycarbonate (translucent) Mounted in a white zinc-coated sheet-steel housing
Light source	Fluorescent: 3 x or 6 x MASTER TL5 / G5 / 14, 28, 35, 49, 54 W	Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids and plasterboard ceilings
Lamp included	Yes (lamp color 827/865, 827/451, 827/452)	Accessory	Suspension bracket set, remote control, control KIT
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Regulator; DALI (HFD)	Remarks	MLO optic ensures optimum light distribution and full glare control in all viewing directions compliant with the current norm for indoor working places (EN12464-1, UGR _r , I ₉ , L _m < 1000 cd/m² at γ > 65°) Dedicated ready to install versions available (KIT)
Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO)	Main applications	Office, department stores
Connection	Wieland connector; 4 poles (W4)		
Option	Emergency lighting: 3 hours (EL3) Lighting controls: ColorVariation Controller (CVC) Euro fuse (FU) included Safety cable (SC)		



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS770 3 x TL5



TBS770 6 x TL5 14W

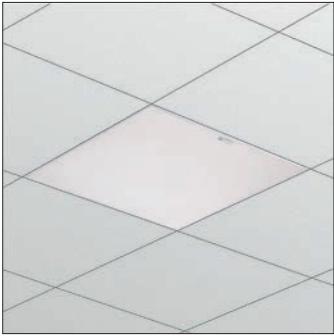


Savio TBS760/770 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO) and CVC; Savio TBS770 with Dynamic Lighting facility

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS770 3x28W/827/865 HFD AC-MLO	7.60	759258 00
TBS770 3x28W/827/865 HFD AC-MLO CVC	7.60	759265 00
TBS770 3x35W/827/865 HFD AC-MLO	9.90	759296 00
TBS770 3x35W/827/865 HFD AC-MLO CVC	9.90	759302 00
TBS770 3x49W/827/865 HFD AC-MLO	9.90	751733 00
TBS770 3x49W/827/865 HFD AC-CVC	9.90	751740 00

Please contact your local Philips representative for additional configurations



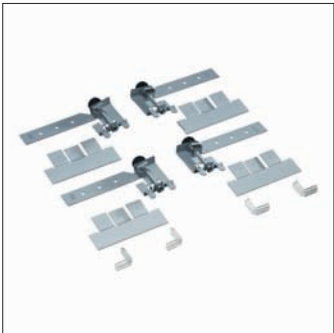
Savio TBS760/770 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO) and CVC; Savio TBS770 with Dynamic Lighting facility

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS770 6x14W/827/865 HFD AC-MLO	8.90	751719 00
TBS770 6x14W/827/865 HFD AC-MLO CVC	8.90	751726 00

Please contact your local Philips representative for additional configurations

Accessories



Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99

Savio TBS760/770 recessed luminaire with ActiLume lighting control



Rotaris TBS740/74 I



Rotaris – the perfect form

The defining visual characteristic of the Rotaris product range, which is based on the innovative TL5 Circular lamp, is its concentric circles. The semi-high-gloss aluminum centerpiece is surrounded by an opal or clear lamp cover, the inside of which has a prismatic structure, again in concentric circles. Continuing outwards, the high-reflectance optic is made of the same semi-high-gloss aluminum.

With the TBS740, the outer rim of the luminaire, which forms one piece with the optic, interfaces with the ceiling, ensuring the smooth visual integration of Rotaris in the space. Glare is controlled in all viewing directions by Omnidirectional Luminance Control technology. Within the Rotaris family, a complete range of surface-mounted, recessed and suspended luminaires is available.

www.philips.com/lighting

Rotaris recessed, 600 x 600 TBS741



Rotaris recessed TBS740



Rotaris surface-mounted



Rotaris suspended

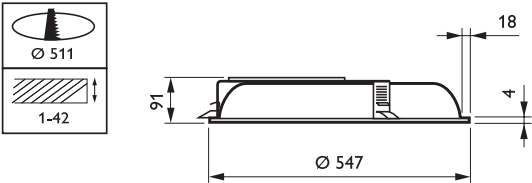


	Rotaris
Type	TBS740
Ceiling grid	Plasterboard ceilings
Light source	Compact fluorescent: 1 x MASTER TL5 Circular / 2GX13 / 60 W
Lamp included	Yes (lamp color 830 or 840)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)
Optical cover	Opal cover (O) Prismatic cover (P)
Infill plate / center piece	Standard (IP) Enlarged (IPL) Perforated (IPP)
Connection	Wieland connector (W)
Color	White (WH) Aluminum (ALU)

Options	Emergency lighting: 3 hours (EL3) Lighting controls: ActiLume multi controller (ACL) Euro fuse (FU) included Safety cable (SC) Dedicated center pieces: prepared for Fugato Micro, Fugato Mini, Fugato Compact or smoke detector
Material	Frame: steel Components: polycarbonate Reflector: anodized aluminum, semi-high-gloss
Installation	Individual
Accessory	Blue inlay sheet
Main applications	Office, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS740



Rotaris TBS740 recessed luminaire with opal prismatic lamp cover

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS740 TL5C60W/830 HFP O IP WH	3.00	634845 00

Please contact your local Philips representative for additional configurations



Rotaris TBS740 recessed luminaire with clear prismatic lamp cover

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS740 TL5C60W/840 HFP P IP WH	3.00	635569 00

Please contact your local Philips representative for additional configurations

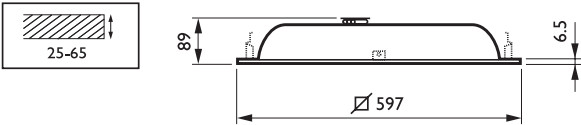


	Rotaris
Type	TBS74I
Ceiling grid	Module size: 600 mm Exposed tee ceilings
Light source	Compact fluorescent: 1 x MASTER TL5 Circular / 2GX13 / 60 W
Lamp included	Yes (lamp color 830 or 840)
Gear	Electronic, 220 - 240V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)
Optical cover	Opal cover (O) Prismatic cover (P)
Infill plate / center piece	Standard (IP) Enlarged (IPL) Perforated (IPP)
Connection	Wieland connector (W)
Color	White (WH) Aluminum (ALU)

Options	Emergency lighting: 3 hours (EL3) Lighting controls: ActiLume multi controller (ACL) Euro fuse (FU) included Safety cable (SC) Dedicated centre pieces: prepared for Fugato Micro, Fugato Mini, Fugato Compact or smoke detector
Material	Frame: steel Components: polycarbonate Reflector: anodized aluminum, semi-high-gloss
Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets (option BR) in concealed ceiling grids
Accessory	Blue inlay sheet
Main applications	Office, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS74I

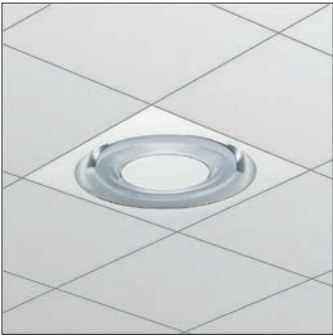


Rotaris TBS74I recessed luminaire with opal prismatic lamp cover

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS74I TL5C60W/840 HFP O FU BR IP WH	3.00	635064 00
TBS74I TL5C60W/840 HFP O IP WH	3.00	639161 00

Please contact your local Philips representative for additional configurations



Rotaris TBS74I recessed luminaire with clear prismatic lamp cover

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS74I TL5C60W/840 HFP P FU IP WH	3.00	635019 00
TBS74I TL5C60W/840 HFP P FU IPL WH	3.00	635033 00

Please contact your local Philips representative for additional configurations



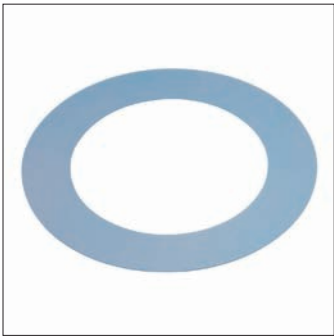
Rotaris TBS74I recessed luminaire with opal prismatic lamp cover with enlarged centerpiece (option IPL)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS74I TL5C60W/840 HFP O FU IPL WH	3.00	635040 00

Please contact your local Philips representative for additional configurations

Accessories



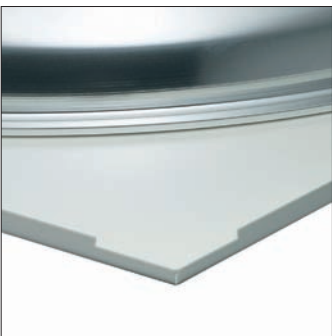
Blue inlay sheet

Product ID	EOC
ZBS740 F-BL	633145 00

Central smoke detector unit



Rotaris integrated in a square metal tile for lay-in installation



Ceiling bracket for mounting in concealed ceiling grids (option BR)



Opal prismatic lamp cover with enlarged centerpiece (option IPL)



Celino TBS690/692



Celino – for slender light beams

Celino recessed luminaires are extremely slender, with high-quality aluminum rim detailing and highly efficient micro-optics for different ceiling systems.

The luminaire-based controls (ActiLume) and high-efficiency optics deliver significant energy savings. A range of optics is available, including an optic for more aesthetic lighting of non-task areas. A floating optic provides the airhandling option, while the micro-lens optic provides a soft-light solution. With dedicated versions for exposed ceiling systems, Celino recessed is very easy to install, and the stylish aluminum rim provides the perfect finish.

www.philips.com/lighting



Celino recessed TBS690



Celino recessed TBS692



Celino free floor-standing



Celino wall-mounted



Celino surface-mounted



Celino suspended

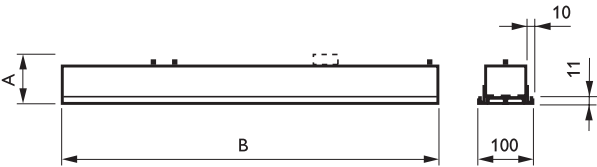


	Celino
Type	TBS690
Ceiling grid	Module size: 300 mm Exposed tee ceiling
Light source	Fluorescent: 1 × MASTER TL5 / G5 / 28, 35, 49, 54, 80 W
Lamp included	Yes (lamp color 45 I (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator, DALI (HFD) High Frequency Regulator (HFR) High Frequency Regulator, touch and DALI (HFD-T)
Optic	High-gloss optic, 3D micro-lamellae, very high-reflective (C8-VH) High-gloss optic, 3D micro-lamellae (C8) Semi-high-gloss optic, 3D micro-lamellae, very high-reflective (D8-VH) High-gloss optic, 3D micro-lamellae (D8) Matt mirror; ribbed cross louvers (M2)
Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO)
Connection	Wieland connector (W) Push-in connector (PI)

Option	Emergency lighting: 3 hours (EL3) Lighting controls: Luxsense daylight controller micro (LXM) ActiLume multi controller (ACL) Euro fuse (FU) included Safety cable (SC)
Material	Housing: zinc-coated steel, white Housing frame: natural anodized aluminum, white Optic: aluminum Cover: AC-MLO: PMMA, PC-MLO: polycarbonate
Installation	Individual; lay-in in exposed ceiling grids
Remarks	MLO optic ensures optimum light distribution and full glare control in all viewing directions compliant with the current norm for indoor working places (EN 12464-1, UGR _r , 19, L _m < 1000 cd/m² at γ > 65°) Dedicated luminaires available with air-handling functionality (AIR), 50 m³/ hour / luminaire
Main applications	Offices, education, healthcare, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS690

	A	B
28W PI, 54W PI	87	1190
28W W	98	1190
35W PI, 49W PI	87	1490
35W W, 49W W	98	1490



Celino TBS690 recessed luminaire with high-gloss optic with 3D micro-lamellae (C8) or very high-reflectance 3D micro-lamellae (C8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS690 1x28W/840 HFP C8-VH EL3 PI ALU	4.60	495026 00
TBS690 1x28W/840 HFP C8 PI ALU	3.60	795232 00
TBS690 1x35W/840 HFP C8 PI ALU	4.50	795270 00
TBS690 1x49W/840 HFP C8 PI ALU	4.50	795317 00

Please contact your local Philips representative for additional configurations



Celino TBS690 recessed luminaire with semi-high-gloss optic with 3D micro-lamellae (D8) or very high-reflectance 3D micro-lamellae (D8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS690 1x28W/840 HFP D8 PI ALU	3.60	795225 00
TBS690 1x35W/840 HFP D8 PI ALU	4.50	795263 00
TBS690 1x49W/840 HFP D8 PI ALU	4.50	795300 00

Please contact your local Philips representative for additional configurations



Celino TBS690 recessed luminaire with matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS690 1x28W/840 HFP M2 PI ALU	3.60	795249 00
TBS690 1x35W/840 HFP M2 PI ALU	4.50	795287 00
TBS690 1x49W/840 HFP M2 PI ALU	4.50	795324 00

Please contact your local Philips representative for additional configurations



Celino TBS690 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS690 1x28W/840 HFP AC-MLO PI ALU	3.60	795256 00
TBS690 1x35W/840 HFP AC-MLO PI ALU	4.50	795294 00
TBS690 1x49W/840 HFP AC-MLO PI ALU	4.50	795331 00

Please contact your local Philips representative for additional configurations

The aluminum rim integrates seamlessly and securely into different ceiling systems, e.g. exposed ceilings



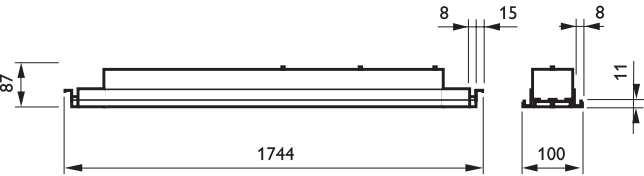
Emergency lighting option with LEDs for efficient maintenance and energy saving



	Celino		
Type	TBS692	Connection	Wieland connector (W) Push-in connector (PI)
	SB1: standaard bandraster	Option	Emergency lighting: 3 hours (EL3) Lighting controls: Luxsense daylight controller micro (LXM) ActiLume multi controller (ACL) Euro fuse (FU) included Safety cable (SC)
	SB2: GPS100		
	SB3: C/U-profile metal ceiling	Material	Housing: zinc-coated steel, white Housing frame: natural anodized aluminum, white Optic: aluminum Cover: AC-MLO: PMMA, PC-MLO: polycarbonate
Ceiling grid	Bandraster ceiling (with flexible length up to 2100 mm)	Installation	Lay-in in bandraster ceiling grids
Light source	Fluorescent: 1 x MASTER TL5 / G5 / 28, 35, 49, 54, 80 W	Remarks	MLO optic ensures optimum light distribution and full glare control in all viewing directions compliant with the current norm for indoor working places (EN12464-1, UGR _r , I ₉ , L _m < 1000 cd/m² at γ > 65°) Dedicated luminaires available with air-handling functionality (AIR), 50 m³ / hour / luminaire
Lamp included	Yes (lamp color 451 (ActiViva Naturel), 452 (ActiViva Active), 827, 830 or 840) No	Main applications	Offices, education, healthcare, retail
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR) High Frequency Regulator; touch and DALI (HFD-T)		
Optic	High-gloss optic, 3D micro-lamellae, very high-reflective (C8-VH) High-gloss optic, 3D micro-lamellae (C8) Semi-high-gloss optic, 3D micro-lamellae, very high-reflective (D8-VH) High-gloss optic, 3D micro-lamellae (D8) Matt mirror; ribbed cross louvers (M2)		
Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO)		



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS692



Celino TBS692 recessed luminaire with high-gloss optic with 3D micro-lamellae (C8) or very high-reflectance 3D micro-lamellae (C8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS692 1x80W/830 HFP C8 W AIR ALU SB2	4.70	495071 00
TBS692 1x49W/830 HFR C8 LX W AIR ALU SB2	4.70	495088 00
TBS692 1x35W/840 HFD C8-VH ACL W WH SB1	4.70	495095 00
TBS692 1x35W/830 HFR C8 LX W AIR ALU SB2	4.70	567076 00

Please contact your local Philips representative for additional configurations



Celino TBS692 recessed luminaire with semi-high-gloss optic with 3D micro-lamellae (D8) or very high-reflectance 3D micro-lamellae (D8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS692 1x35W/830 HFP D8 W ALU SB2	4.70	795539 00
TBS692 1x35W/830 HFP D8-VH W ALU SB2	4.70	795546 00
TBS692 1x49W/830 HFP D8 W ALU SB2	4.70	795553 00
TBS692 1x49W/830 HFP D8-VH W ALU SB2	4.70	795560 00

Please contact your local Philips representative for additional configurations



Celino TBS692 recessed luminaire with matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS692 1x35W/830 HFP M2 EL3 PI ALU SB3	5.70	495101 00

Please contact your local Philips representative for additional configurations



Celino TBS692 recessed luminaire with acrylate or polycarbonate micro-lens optic (AC-MLO/PC-MLO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS692 1x35W/830 HFP PC-MLO W ALU SB2	4.70	495118 00
TBS692 1x35W/830 HFP AC-MLO W ALU SB2	4.70	495125 00

Please contact your local Philips representative for additional configurations

ActiLume provides daylight regulation, occupancy control and personal regulation for maximum visual comfort and automatic energy saving



The aluminum rim integrates seamlessly and securely into different ceiling systems, e.g. standard bandraster ceilings



SmartForm



SmartForm – the new standard for office lighting

Reflecting Philips' drive for simplicity, SmartForm recessed is a complete family of highly versatile modular luminaires. These luminaires are available with MASTER TL5 lamps in square and rectangular, standard and Dynamic Lighting versions and have been designed to fit in a wide range of modular ceiling types (600-mm-module grids) and plaster ceilings. They can fulfill the majority of project requirements in most applications.

Energy efficiency

As well as incorporating energy-efficient TL5 lamps and a range of Philips electronic ballasts, the SmartForm recessed family can be equipped with lighting controls for presence detection and daylight regulation (ActiLume) or daylight regulation only (Luxsense) in order to reduce energy consumption (W/m^2 is very low). In this way, this Green Flagship range also reduces the overall cost of ownership as well as CO_2 levels, making SmartForm an environmentally friendly choice.

SmartForm – ultra-flat 'light beam'

SmartForm recessed TBS460 is a combination of 'light beams'. The luminaire is built around superior micro optics and has a build-in height of a mere 45 mm. The very flat fittings make them ideal for applications where there is little space above false ceilings, e.g. in refurbishment projects where ceiling space may be especially limited.

SmartForm – a real 'light surface'

SmartForm recessed TBS461/471 'light surface' luminaires are equipped with a micro-lens optic (MLO) to create a homogeneous edge-to-edge lighting appearance with a comfortable brightness impression, as is often required in healthcare, education or architectural lighting projects where visual quality is very important. The housing of these luminaires has a build-in height of 95 mm. The TBS471 version has also Dynamic Lighting.

SmartForm – attractive 'light effect beam'

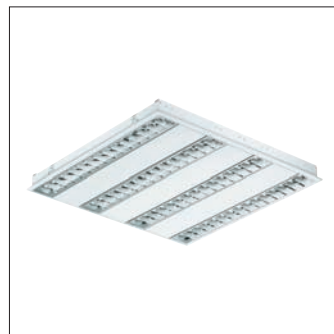
SmartForm recessed TBS464 is a combination of light beams and decorative panels. With an innovative way of guiding the light towards the infill panels, while ensuring a high quality office beam, this result in crispy and homogenous decorative light effects.

SmartForm – attractive 'light effect cover'

SmartForm recessed TBS464 with a selection of optical covers: opal-satinized and micro-lens optics, combined with top-reflectors, create linear lighting effects of different levels within a surface of light: – medium and intense – for different applications.

www.philips.com/lighting

SmartForm



Range architecture for SmartForm 'light beam' TBS460

The SmartForm recessed range TBS460 is a concept with a combination of 'light beams' for ceilings with modular grids of 600 x 600, 300 x 1200 and 300 x 1500 mm and for plaster ceilings. The luminaires are very flat, measuring only 45 mm (Push-in versions), and are easy to install.

- Square luminaires have 2, 3 or 4 lamps of 14 or 24 W.
- Rectangular luminaires have 1 or 2 lamps of 28 or 54 W and 35, 49 or 80 W.

The housings are filled symmetrically with 'light beam' micro optics, which are available in different quality levels and with closed or perforated infill plates.

The high-quality finishing and the seamless rim with a height of only 5 mm ensure the luminaire blends in with every ceiling.

The TBS460 luminaires have closed or perforated infill plates and are painted white or silver-gray. The attractive perforated pattern makes the luminaire appear richer when it is mounted in the ceiling.

Ultra-flat housing, with Push-in connection, is only 45 mm



Rim detailing is seamless and with only 5 mm height



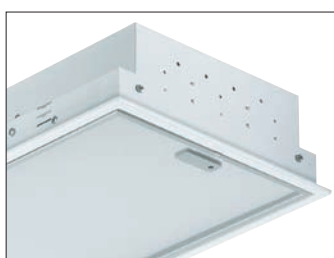
Very High efficient OLC optic (C8/D8-VH), LOR up to 94%



Very Comfortable OLC optic (C8/D8-C), glare control 200 cd/m²



Micro-Lens-Optic with Personal and Dynamic Lighting options



ActiLume for energy saving



Air-handling slots beside optics



Silver-gray color (RAL9006 based) and, as option, perforated infill panels



SmartForm			
Type	TBS460 (standard version)	Option	Emergency lighting: 1 hour (EL1), 3 hours (EL3)
Ceiling grid	Module size: 600 mm Exposed tee, concealed fixed and plasterboard ceilings	Lighting controls:	Luxsense daylight controller (LX) ActiLume multi controller (ACL)
Light source	Fluorescent: 2 x, 3 x or 4 x MASTER TL5 / G5 / 14, 24 W (square version) 1 x or 2 x MASTER TL5 / G5 / 28, 35, 49, 54, 80 W (rectangular version)	Euro fuse (FU) included	
Lamp included	Yes (lamp color 45 I (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No	Safety cable (SC)	
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator, DALI (HFD) High Frequency Regulator (HFR) High Frequency Regulator, touch-switch (HFR-T)	Separate switching (SW)	
Optic	High-gloss optic, 3D micro-lamellae, very high-reflective (C8-VH) High-gloss optic, 3D micro-lamellae (C8) High-gloss optic, 3D micro-lamellae, comfort (C8-C) Semi-high-gloss optic, 3D micro-lamellae, very high-reflective (D8-VH) Semi-high-gloss optic, 3D micro-lamellae (D8) Semi-high-gloss optic, 3D micro-lamellae, comfort (D8-C) Matt mirror; ribbed cross louvers (M2)	Infill plates	Infill plate closed (IP) Infill plate perforated (IPP)
Optical cover	Opal cover (O)	Material	Housing: zinc-coated steel, rim post lackered, white RAL9016 based Optional white RAL9010 or silver grey RAL9006 based Optic: aluminum
Connection (outside housing)	Push-in connector (PI) or with pull relief (PIP) Wieland connector GST 18, 3 or 4 poles (W,W4 respectively) Wago connector; 3 or 4 poles (WA,WA4 respectively) Cable, length 200 cm, with plug CEE7 (CCE)	Installation	Exposed ceilings: in lay, no brackets needed Concealed ceilings: bracket ZBS460 SMB (4 pcs) reach is 25 - 45 or 65 mm Concealed ceiling with T-bar 38 mm: bracket ZBS460 SMB-TPM (4 pcs) Plaster ceilings: bracket ZBS460 SMB-PLC (24 pcs), reach is 10 - 20 mm
		Accessory	Suspension bracket sets
		Remarks	Protection foil to protect the optic during installation Dedicated luminaires available with air-handling functionality (AIR), 50 m ³ / hour / luminaire
		Main applications	Office, education, healthcare, recreation, retail, industry

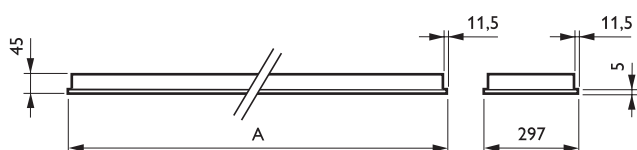


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



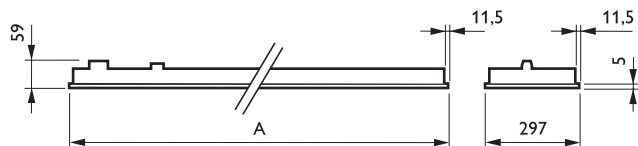
TBS460 1 x TL5 PI

	A
28W	1197
35W	1497

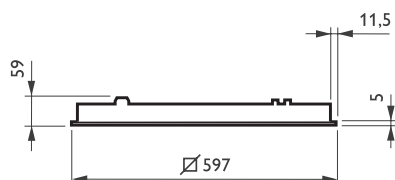


TBS460 2 x TL5 PI

	A
28W, 54W	1197
35W	1497



TBS460 1, 2 x TL5 W



TBS460 2, 3, 4 x TL5 W

	A
28W, 54W	1197
35W, 49W	1497



TBS460 2, 3, 4 x TL5 PI

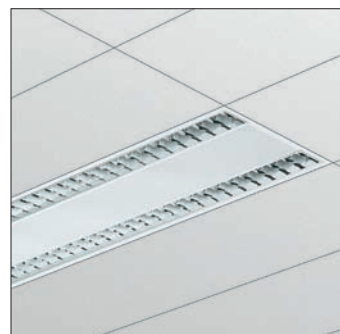


SmartForm TBS460 recessed modular with micro optic with flat, profiled lamellae (M2) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 1x28W/840 HFP M2 PI IP	4.80	002747 00

Please contact your local Philips representative for additional configurations

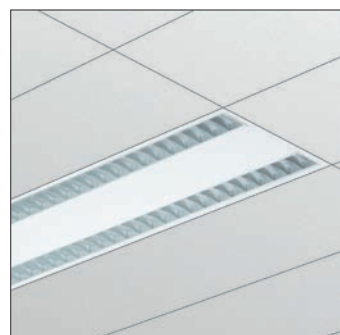


SmartForm TBS460 recessed modular with micro OLC very high efficiency high-gloss optic (C8) and very-high-gloss optic (C8-VH) and infill plate perforated (IPP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 2x28W/840 HFP C8 PI IPP	4.80	003416 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with micro optic with flat, profiled lamellae (M2) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 2x28W/840 HFP M2 PI IP	4.80	003942 00
TBS460 2x54W/840 HFP M2 PI IP	4.80	004352 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with micro optic with flat, profiled lamellae (M2) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 2x14W/840 HFP M2 PI IP	4.60	003010 00
TBS460 2x24W/840 HFP M2 PI IP	4.60	003133 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with opal beam cover (O) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 2x24W/830 HFP O W IP	4.60	003089 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with micro OLC very high efficiency high-gloss optic (C8) and very-high-gloss optic (C8-VH) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 3x14W/840 HFP C8 PI IP	4.60	004734 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with micro OLC very high efficiency semi-high-gloss optic (D8) and very-high-gloss optic (D8-VH) and infill plate perforated (IPP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 3x14W/840 HFP D8 PI IPP	4.60	004932 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with micro OLC very high efficiency semi-high-gloss optic (D8) and very-high-gloss optic (D8-VH) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 4x14W/840 HFP D8 PI IP	4.60	006011 00

Please contact your local Philips representative for additional configurations



SmartForm TBS460 recessed modular with opal beam cover (O) and infill plate closed (IP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS460 4x14W/840 HFP O PI IP	4.60	006295 00
TBS460 4x24W/840 HFP O PI IP	4.60	006455 00

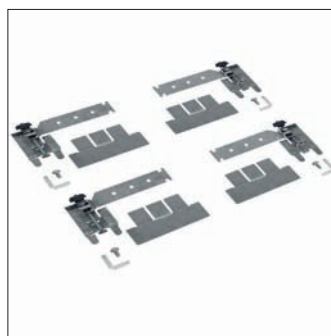
Please contact your local Philips representative for additional configurations

Accessories



Brackets for concealed ceilings with T-bar 38 mm

Product ID	EOC
ZBS460 SMB-TPM (4PCS)	493039 99



Brackets for concealed ceilings

Product ID	EOC
ZBS460 SMB (4PCS)	493077 99



Brackets for plaster ceilings

Product ID	EOC
ZBS460 SMB-PLC (24PCS)	493053 99

SmartForm



Range architecture for SmartForm 'light surface' TBS46 I/47 I

The SmartForm recessed range TBS46 I is a 'light surface' concept which incorporates the superior micro-lens optics (MLO). The range is for ceilings with modular grids of 600 x 600, 300 x 1200 and 300 x 1500 mm and for plaster ceilings. The luminaires are designed for edge-to-edge homogeneous light surfaces and have a height of 95 mm (push-in version). The luminaires offer the full TL5 range:

- The square luminaires have 4 lamps of 14 or 24 W
- The rectangular luminaires have 2 lamps of 28 or 54 W and 35, 49 or 80 W.

The SmartForm TBS47 I is the Dynamic Lighting version with the color variation controller (CVC). The luminaires offer the full TL5 range:

- The square luminaires have 6 lamps of 14 or 24 W and
- The rectangular luminaires have 3 lamps of 28 or 54 W and 35, 49 or 80 W.

Due to the low height of the rim (5 mm), the luminaire fits flush with the ceiling.

The height is 95 mm and the rim is seamless with a height of only 5 mm

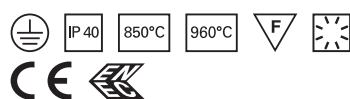


The luminaire is available with a silver-gray (RAL9006-based) painted rim

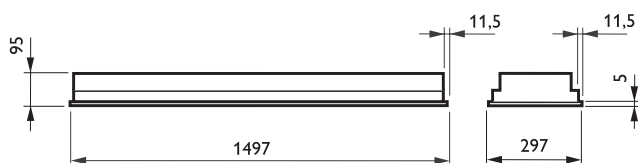
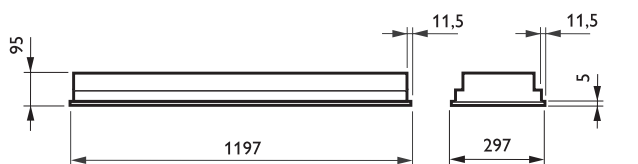


	SmartForm
Type	TBS46 I (standard version) TBS47 I (Dynamic Lighting version)
Ceiling grid	Module size: 600 mm Exposed tee, concealed fixed and plasterboard ceilings
Light source	Fluorescent: Square TBS46 I: 4 x MASTER TL5 / G5 / 14, 24 W Square TBS47 I: 6 x MASTER TL5 / G5 / 14, 24 W Rectangular TBS46 I: 2 x MASTER TL5 / G5 / 28, 35, 49, 54, 80 W Rectangular TBS47 I: 3 x MASTER TL5 / G5 / 28, 35, 49, 54, 80 W
Lamp included	Yes (lamp color 45 I (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: TBS46 I: High Frequency Performer (HFP) TBS46 I/47 I: High Frequency Regulator; DALI (HFD) TBS46 I: High Frequency Regulator (HFR) TBS46 I: High Frequency Regulator; touch-switch (HFR-T)
Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO) Diffuser; standard MLO's have diffuser (DF)
Connection (outside housing)	Push-in connector (PI) or with pull relief (PIP) Wieland connector GST 18, 3 or 4 poles (W, W4 respectively) Wago connector; 3 or 4 poles (WA, WA4 respectively) Cable, length 200 cm, with plug CEE7 (CCE), for TBS46 I only

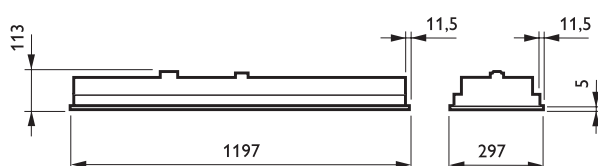
Option	Emergency lighting: 1 hour (EL1), 3 hours (EL3) Lighting controls: TBS46 I: ActiLume multi controller (ACL) TBS47 I: ColorVariation Controller (CVC) Euro fuse (FU) included Safety cable (SC) Separate switching (SW), TBS46 I only
Material	Housing: zinc-coated steel, rim post lackered, white RAL9016 based Optional white RAL9010 or silver grey RAL9006 based Optical cover: AC-MLO: PMMA, PC-MLO: polycarbonate
Installation	Exposed ceilings: in lay, no brackets needed Concealed ceilings: bracket ZBS460 SMB (4 pcs) reach is 25 - 45 or 65 mm Plaster ceilings: bracket ZBS471 SMB-PLC (4 pcs), reach is 10 - 20 mm
Accessory	Suspension bracket sets
Remarks	Protection foil to protect the optic during installation
Main applications	Office, education, healthcare, recreation, retail, industry



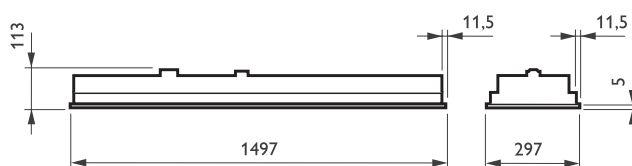
Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



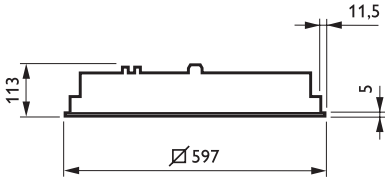
TBS46 I/47 I 35, 49, 80 W PI



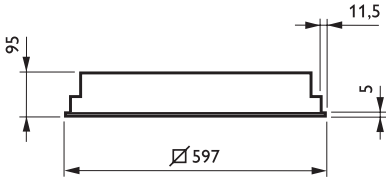
TBS46 I/47 I 28, 54 W W



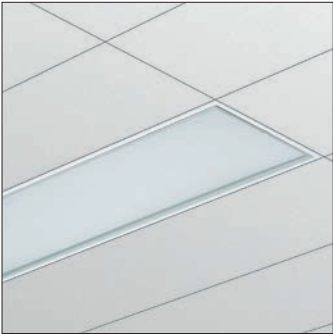
TBS46 I/47 I 35, 49, 80 W W



TBS46 I/47 I 14, 24 W W



TBS46 I/47 I 14, 24 W PI



SmartForm TBS46 I/47 I recessed modular luminaire with PMMA or polycarbonate micro-lens optic (AC-MLO, PC-MLO); SmartForm TBS47 I with Dynamic Lighting facility



SmartForm TBS46 I/47 I recessed modular luminaire with PMMA or polycarbonate micro-lens optic (AC-MLO, PC-MLO); SmartForm TBS47 I with Dynamic Lighting facility

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS46 I 2x28W/840 HFP AC-MLO PI	7.80	006462 00
TBS46 I 2x49W/840 HFP AC-MLO PI	9.00	006509 00
TBS46 I 2x54W/840 HFP AC-MLO PI	7.80	006516 00
TBS47 I 3x28W/827/865 HFD AC-MLO W	7.80	008503 00
TBS47 I 3x28W/827/865 HFD AC-MLO CVC W	7.80	008510 00

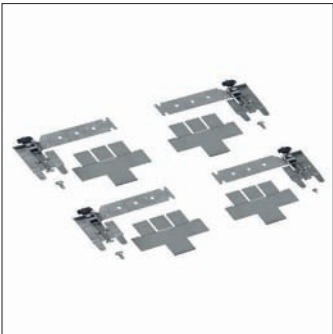
Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS47 I 6x14W/827/865 HFD AC-MLO CVC W	7.80	008572 00
TBS46 I 4x14W/840 HFP AC-MLO PI	7.80	006561 00
TBS47 I 6x14W/827/865 HFD AC-MLO W	7.80	008565 00

Please contact your local Philips representative for additional configurations

Accessories



Suspension bracket set

Product ID	EOC
ZBS46 I SMB-PLC (4PCS)	641776 99

SmartForm



The deco-infill panels have square holes of 4 mm.

The colored foils generate light effects in white, blue, green or yellow.

The customized panels are also available in standard colors



SmartForm TBS464 – attractive ‘light effect beam’

SmartForm recessed TBS464 is a combination of light beams and decorative panels. With an innovative way of guiding the light towards the infill panels, while ensuring a high quality office beam, this result in crispy and homogenous decorative light effects.

Range architecture for SmartForm ‘light effect beam’ TBS464

SmartForm recessed TBS464 range is a concept that offers comfortable ‘light effects’ thanks to the combination of ‘light beams’ and decorative perforated infill panels (IPD-xx). The attractive way of guiding light towards the infill panels, ensuring high quality light beam, results in crispy and homogenous decorative light effects. With additional foils color accents can be made.

This range is available as standard for ceilings with modular grids of 600 x 600 mm (3- and 4-lamps) and 300 x 1200 mm (2-lamps) and for plaster ceilings. The luminaires are very flat, height only 47 mm, are suitable for use with TL5 lamps, offer quick connection facilities and are easy to install. The housings are filled symmetrically with ‘light beam’ micro optics, which are available in different qualities. To facilitate maintenance, all these elements are easily to remove. The high-quality finishing and the flat seamless rim ensure the luminaires blend in with any ceiling.

The SmartForm TBS464 with customized infill panels (IPC-xx) has a frame construction which can be adapted for use with different cover materials. A few standard choices are made for color effects but there is also a lot of freedom to use other transparent materials which ensure an appealing light effect on the ceiling. The dimensions, material weight and recommended transparency are specified.

Optics

SmartForm concepts incorporate the latest optic technology: the aluminum micro optic with 3D lamellae ensures optimum visual comfort and efficiency compliant with the latest office-lighting norm (EN 12464-1).

www.philips.com/lighting

C/D8-C (IPD)

Excellent comfort micro optic made of high-quality very high reflecting aluminum in high gloss (C) or semi-high gloss (D).



C/D8-VH (IPC)

Very efficient micro optic made of high-quality very high reflecting silver aluminum in high gloss (C) or semi-high gloss (D).



C/D8 (IPD)

Performer micro optic made of high-quality aluminum in high gloss (C) or semi-high gloss (D).

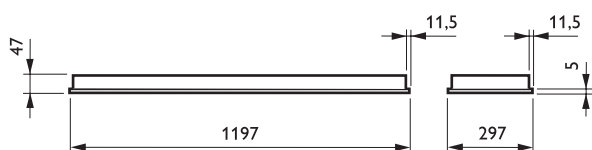


	SmartForm
Type	TBS464
Ceiling grid	Module size: 600 mm Exposed tee, concealed fixed and plasterboard ceilings
Light source	Fluorescent: Square: 3 x or 4 x MASTER TL5 / G5 / 14, 24 W Rectangular: 2 x MASTER TL5 / G5 / 28, 54 W
Lamp included	Yes, (lamp color 45 I (ActiViva Natural), 452 (ActiViva Active), 827, 830,840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator; I-10V (HFR) High Frequency Regulator; touch and DALI (HFD-T)
Optic	Micro OLC Performer high-gloss optic (C8) Micro OLC Performer semi-high-gloss optic (D8) Micro OLC excellent comfort high-gloss optic (C8-C) Micro OLC excellent comfort semi-high-gloss optic (D8-C) Micro OLC very high efficient high-gloss optic (C8-VH) Micro OLC very high efficient semi-high-gloss optic (D8-VH)
Infill plates (beam version)	Infill plate deco (IPD) with colored foil, white (WH), blue (BL), green (GN), yellow (YE) Infill plate customized (IPC) empty frame, with opal and colored foil, white (WH), blue (BL), green (GN), yellow (YE), Teaser I (IPC-TI)

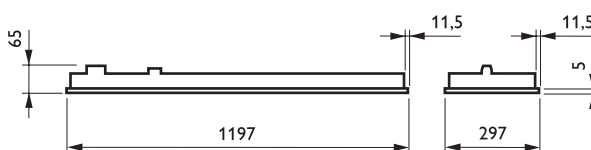
Controls (optional)	Luxsense daylight controller micro (LXM) ActiLume multi controller (ACL)
Emergency Lighting	Emergency lighting, 1 hour (EL1), 3 hours (EL3)
Connections (outside housing)	Push in connection (PI) or with pull relief (PIP) Wieland connector 3 or 4 pole GST 18 (W,W4) Wago connector 3 or 4 pole (WA,WA4) Ensto connector 3 or 4 pole (EN,EN4) Cord white, 2 m and plug CEE7 (CCE)
Other options	Euro fuse (FU), Safety cable (SC), Separate switching (SW), Separate switching EL-versions (SW-EL)
Material and colors	Housing: zinc-coated steel, rim post lackered, white RAL9016 based Optional white RAL9010 or Silver grey RAL9006 based
Deliveries	Luminaires are packed with mounting instructions and optics are protected with foil
Accessories	Exposed ceilings (in lay): no brackets needed Concealed ceilings: bracket ZBS460 SMB (4 pcs) Concealed ceiling with T-bar 38 mm: ZBS460 SMB-TPM (4 pcs) Plaster ceilings: bracket ZBS460 SMB-PLC (24 pcs)
Main applications	Office, education, healthcare, recreation, retail, industry



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



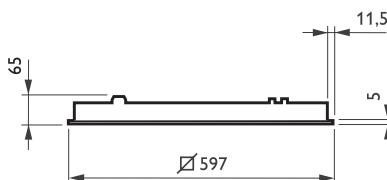
TBS464 2 x TL5



TBS464 2 x TL5 with connector



TBS464 3,4 x TL5



TBS464 3,4 x TL5 with connector



SmartForm TBS464 recessed modular luminaire with micro OLC excellent comfort semi-high-gloss optic (D8-C) customized infill plate



SmartForm TBS464 recessed modular luminaire with micro OLC excellent comfort semi-high-gloss optic (D8-C) customized infill plates



SmartForm TBS464 recessed modular luminaire with micro OLC excellent comfort semi-high-gloss optic (D8-C) and decorative panels



SmartForm TBS464 recessed modular luminaire with micro OLC excellent comfort semi-high-gloss optic (D8-C) and decorative panels

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 2-lamp TBS464, customized panels		
TBS464 2x28W/840 HFP D8 W IPC	5.40	009883 00
TBS464 2x28W/840 HFP D8-C W IPC-WH	5.40	009890 00
TBS464 2x28W/840 HFR D8 LXM PI IPD-WH	5.40	009951 00
TBS464 2x28W/840 HFR D8 LXM W IPD-WH SI	5.40	009968 00
TBS464 2x54W/840 HFP D8-C W IPD-BL	5.40	980048 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 3-lamp TBS464, customized panels		
TBS464 3x14W/840 HFP D8 W IPC	5.50	980147 00
TBS464 3x14W/840 HFP D8-C W IPC-WH SI	5.50	980178 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 4-lamp TBS464, customized panels		
TBS464 4x14W/840 HFP C8 W IPC-GN	5.60	980345 00
TBS464 4x14W/840 HFP D8 W IPC	5.60	980413 00
TBS464 4x14W/840 HFP D8-C W IPC-BL SI	5.60	980437 00
TBS464 4x14W/840 HFP D8-VH W IPC-WH	5.60	980451 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 3-lamp TBS464, decorative panels		
TBS464 3x14W/840 HFP C8 W IPD-WH SC	5.50	980116 00
TBS464 3x14W/840 HFP C8-C W IPD-WH SC	5.50	980123 00
TBS464 3x14W/840 HFP D8 W IPD-WH SI	5.50	980154 00
TBS464 3x14W/840 HFP D8-C W IPD-BL	5.50	980185 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 4-lamp TBS464, decorative panels		
TBS464 4x14W/840 HFP C8 PI IPD-YE	5.60	980338 00
TBS464 4x14W/840 HFP C8 W IPD-WH SC	5.60	980352 00
TBS464 4x14W/840 HFP C8-C W IPD-WH	5.60	980383 00
TBS464 4x14W/840 HFP D8-C W IPD-GN	5.60	980444 00
TBS464 4x14W/840 HFR D8 LXM W IPD-WH	5.60	980666 00
TBS464 4x24W/840 HFP C8-VH PI IPD-WH	5.60	980772 00

Please contact your local Philips representative for additional configurations

SmartForm



TBS464, 2 and 3-lamp with opal
satinized cover (O-SAT)



TBS464, 2 and 3-lamp with AC-MLO
and top reflector with very high-
reflectance aluminum (T-VH AC-MLO)



SmartForm TBS464 – attractive 'light effect cover'

SmartForm recessed TBS464 with a selection of optical covers: opal-satinized and micro-lens optics, combined with top-reflectors, create linear lighting effects of different levels within a surface of light: – medium and intense – for different applications.

SmartForm 'light effect' luminaire with opal satinized cover or micro lens optic (MLO)

The SmartForm recessed TBS464 range is a concept that offers comfortable 'light effects'. The combination comprises a very flat luminaire and special transparent covers. Excellent results can be achieved for a variety of applications using additional top reflectors to create linear lighting effects of different levels: medium or intense. MASTER TL5 lamps with color 840 are recommended to produce clear brightness effects.

This range is available as standard for ceilings with modular grids of 600 x 600 mm (3- and 4-lamp) and 300 x 1200 mm (2-lamp), and for plaster ceilings.

The luminaires are very flat, measuring only 47 mm, can be used with TL5 lamps, offer quick connection facilities and are easy to install. The high-quality finishing and the flat seamless rim ensure clean and superior visual appearance on the ceiling.

Optics

Two cover qualities

- Opal satinized acrylate cover optic (O-SAT). This optic creates a diffuses light distribution.
- Mirco Lens Optic made of acrylate (AC-MLO) or polycarbonate (PC-MLO). Droplet shaped light distribution and all around glare control. The patented Micro Lens Optic is optimized for the best balance between efficiency and low brightness at viewing angles above 65 degrees.

Options

- White lacquered metal reflector (T-WH) behind cover for medium linear lighting effects.
- Aluminum top reflector made of high quality, very high reflective optimum silver-coated aluminum (T-VH), reflection $\geq 97\%$ for intense linear effects.

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O-Sat opal satinized acrylate cover

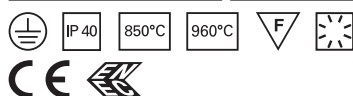


AC/PC-MLO Micro Lens Optic

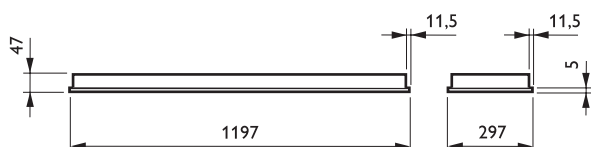


	Smartform
Type	TBS464
Light source	Fluorescent TL5: Square: 3 x or 4 x MASTER TL5 / G5 / 14, 24 W Rectangular: 2 x MASTER TL5 / G5 / 28, 54 W
Lamp included	Yes, (lamp color 45 I (ActiViva Natural), 452 (ActiViva Active), 827, 830,840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator; I-10V (HFR) High Frequency Regulator; touch and DALI (HFD-T)
Optic	Micro OLC lens optic cover of acrylate material (AC-MLO) Micro OLC lens optic cover of polycarbonate material (PC-MLO) Opal satinized cover of acrylate material (O-SAT) Top-reflector of white metal (T-WH), optional Top-reflector of very high reflectance aluminum (T-VH), optional
Controls (optional)	Luxsense micro daylight controller (LXM) ActiLume multi controller (ACL)
Emergency Lighting	Emergency lighting, 1 hour (EL1) Emergency lighting, 3 hours (EL3)

Connections (outside housing)	Push in connection (PI) or with pull relief (PIP) Wieland connector 3 or 4 pole GST 18 (W,W4) Wago connector 3 or 4 pole (WA,WA4) Ensto connector 3 or 4 pole (EN,EN4) Cord white, 2 m and plug CEE7 (CCE)
Other options	Euro fuse (FU), Safety cable (SC), Separate switching (SW), Separate switching EL-versions (SW-EL)
Material and colors	Housing: zinc-coated steel, rim post lackered, white RAL9016 based Optional white RAL9010 or Silver grey RAL9006 based
Deliveries	Luminaires are packed with mounting instructions and optics are protected with foil
Accessories	Exposed ceilings (in lay): no brackets needed Concealed ceilings: bracket ZBS460 SMB (4 pcs) Concealed ceiling with T-bar 38mm: ZBS460 SMB-TPM (4 pcs) Plaster ceilings: bracket ZBS460 SMB-PLC (24 pcs)
Main applications	Office, education, healthcare, recreation, retail, industry



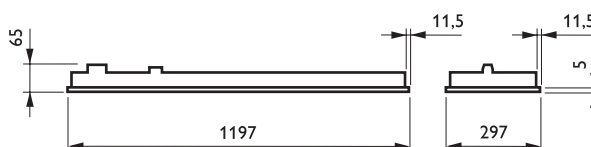
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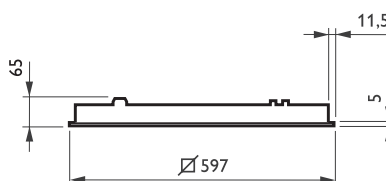
TBS464 2 x TL5



TBS464 3,4 x TL5



TBS464 2 x TL5 with connector



TBS464 3,4 x TL5 with connector



Smartform TBS464 recessed modular luminaire with opal satinized cover (O-SAT)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 2-lamp TBS464, O-SAT cover		
TBS464 2x28W/840 HFP O-SAT PI	5.40	009906 00
TBS464 2x54W/840 HFP O-SAT PI	5.40	980055 00

Please contact your local Philips representative for additional configurations



Smartform TBS464 recessed modular luminaire with acrylate or polycarbonate microlens optic (AC-MLO/PC-MLO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 2-lamp TBS464, AC/PC-MLO cover		
TBS464 2x28W/840 HFD AC-MLO ACL W	5.40	009821 00
TBS464 2x28W/840 HFD AC-MLO ACL W	5.40	009937 00
TBS464 2x28W/840 HFP PC-MLO W	5.85	980017 00
TBS464 2x54W/840 HFD T-VH AC-MLO W	5.40	980048 00

Please contact your local Philips representative for additional configurations



Smartform TBS464 recessed modular luminaire with acrylate or polycarbonate microlens optic (AC-MLO/PC-MLO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 3-lamp TBS464, AC/PC-MLO cover		
TBS464 3x14W/840 HFD AC-MLO ACL W	5.50	980109 00
TBS464 3x14W/840 HFP PC-MLO W	5.50	980222 00
TBS464 3x14W/840 HFP T-VH AC-MLO PI	6.80	980239 00
SmartForm 4-lamp TBS464, AC/PC-MLO cover		
TBS464 4x14W/840 HFD AC-MLO ACL W	5.60	980260 00
TBS464 4x14W/840 HFP T-VH PC-MLO W SI	5.60	980574 00
TBS464 4x14W/840 HFP T-VH AC-MLO W	6.90	980598 00
TBS464 4x24W/840 HFD AC-MLO W	5.60	980734 00
TBS464 4x24W/840 HFD T-VH AC-MLO W	5.60	98075 800
TBS464 4x14W/840 HFR D8 LXM W IPD-WH	5.60	980666 00

Please contact your local Philips representative for additional configurations



Smartform TBS464 recessed modular luminaire with opal satinized cover (O-SAT)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SmartForm 3-lamp TBS464, O-SAT cover		
TBS464 3x14W/840 HFP O-SAT W	5.50	980208 00
TBS464 3x24W/840 HFP O-SAT PI	5.50	980246 00
SmartForm 4-lamp TBS464, O-SAT cover		
TBS464 4x14W/840 HFD T-VH O-SAT ACL W SI	5.60	980307 00
TBS464 4x14W/840 HFP T-VH O-SAT W	6.90	980611 00
TBS464 4x24W/840 HFP O-SAT PI	5.60	980789 00
TBS464 4x14W/840 HFP D8-VH W IPC-WH		

Please contact your local Philips representative for additional configurations

TL5 'light beam' Luminaires



TL5 'light beam' concepts – slender and semi-modular

Reflecting the market trend towards miniaturization and architectural integration, Philips has developed a number of semi-modular luminaire ranges designed around the slim TL5 fluorescent lamp.

Creating the appearance of a slender beam made of light, these luminaires – most incorporating a single lamp – combine outstanding light distribution, glare control and visual comfort with high levels of efficiency, in compliance with the latest office-lighting norm (EN 12464-1).

Modular in length only, these 'light beam' luminaires are typical project solutions. Featuring state-of-the-art micro, mini or midi optics, they cover the full high- to mid-end specification spectrum and are designed to fit in a variety of ceiling types – e.g. exposed, concealed, bandraster and plaster. A number of versions can easily be extended in length, while others (can be configured to) form a light-line. Most of the types have ventilation slots and are easy to install.

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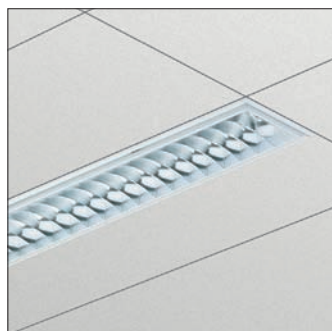
TL5 light beam concepts

Main characteristics	Indolight		Indolight		Indolight	
	TBS490	TBS600	TBS315	TBS318	TBS340	
Appearance:	Smallest beam concept in metal housing	Beam concept in metal housing	Beam concept in metal housing	Beam concept in metal housing	Continuous lightline beam concept in metal housing	
Width 1 lamp:	90.5 mm	114.5 mm	147.5 mm	185.0 mm	147.5 mm	
Width 2 lamps:	150.5 mm	200 mm	147.5 mm	185.0 mm	147.5 mm	
Beam optic:	micro-beam	mini-beam	midi-beam	midi-beam	midi-beam	
Ceiling type:	exposed and concealed	exposed and concealed	exposed and concealed	metal strip	exposed and concealed	
Modularity:	modular in length	flexible in length	flexible in length	flexible in length	flexible in length	

TBS490



TBS600



TBS315



TBS490



TBS490 – for slender light beams

TBS490 is a range of TL5 recessed luminaires for exposed ceilings. Modular in length only, they are designed for 300 mm modules.

Featuring a very slim housing and highly efficient micro-optics, TBS490 creates the impression of a slender strip of light. The miniaturized luminaire-based controls (ActiLume) and high-efficiency optics deliver significant energy savings. A range of optics is available, including an optic for more aesthetic lighting of non-task areas. TBS490 is easy to install.

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TBS490 recessed luminaire with ActiLume lighting control

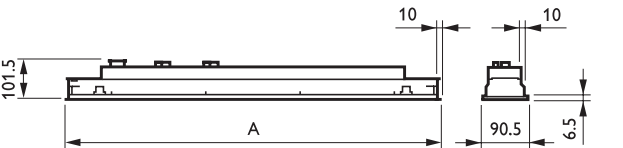


TBS490	
Type	TBS490
Ceiling systems	Module size: 300 mm Exposed tee ceilings
Light source	Fluorescent: 1 x or 2 x MASTER TL5 / G5 / 14, 24, 28, 35, 49, 54, 80 W
Lamp included	Yes (lamp color 451 (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator; touch and DALI (HFD-T) High Frequency Regulator (HFR)
Optic	Semi-high-gloss optic, 3D micro-lamellae (D8) Semi-high-gloss optic, 3D micro-lamellae, very high-reflective (D8-VH) High-gloss optic, 3D micro-lamellae (C8) High-gloss optic, 3D micro-lamellae, very high-reflective (C8-VH) Matt mirror; ribbed cross louvers (M2)

Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO)
Connection	Wieland connector (W) Push-in connector (PI)
Option	Emergency lighting: 3 hours (EL3) Lighting controls: Luxsense daylight controller micro (LXM) ActiLume multi controller (ACL) Euro fuse (FU) included Safety cable (SC)
Material	Housing: zinc-coated steel Housing frame: natural anodized aluminum Optic: aluminum Cover: AC-MLO: PMMA, PC-MLO: polycarbonate
Installation	Individual or in line; lay-in in exposed ceiling grids
Accessory	Suspension bracket set
Main applications	Offices, education, healthcare, retail

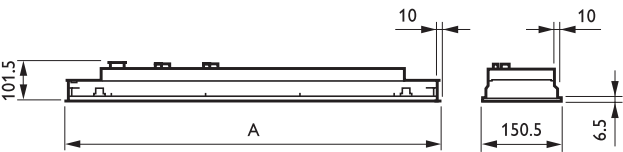


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS490 1 x TL5

	A
14W	597
28W, 54W	1197
35W, 49W, 80W	1497



TBS490 2 x TL5

	A
14W, 24W	597
28W	1197
35W, 49W	1497

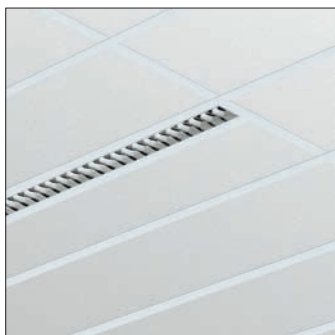


TBS490 recessed luminaire with TL5 fluorescent lamp(s) and semi-high-gloss optic with 3D micro-lamellae (D8) or very high-reflectance 3D micro-lamellae (D8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS490 1x28W/840 HFP D8 PI	2.60	795898 00
TBS490 1x54W/840 HFP D8 PI	2.60	795935 00
TBS490 1x35W/840 HFP D8 PI	3.10	795973 00
TBS490 1x49W/840 HFP D8 PI	3.10	796000 00

Please contact your local Philips representative for additional configurations



TBS490 recessed luminaire with TL5 fluorescent lamp(s) and high-gloss optic with 3D micro-lamellae (C8) or very high-reflectance 3D micro-lamellae (C8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS490 1x28W/840 HFP C8 PI	2.60	795904 00
TBS490 1x54W/840 HFP C8 PI	2.60	795942 00
TBS490 1x35W/840 HFP C8 PI	3.10	795980 00
TBS490 1x49W/840 HFP C8 PI	3.10	796017 00

Please contact your local Philips representative for additional configurations



TBS490 recessed luminaire with TL5 fluorescent lamp(s) and matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS490 1x28W/840 HFP M2 PI	2.60	795928 00
TBS490 1x54W/840 HFP M2 PI	2.60	795966 00
TBS490 1x49W/840 HFP M2 PI	3.10	796031 00

Please contact your local Philips representative for additional configurations



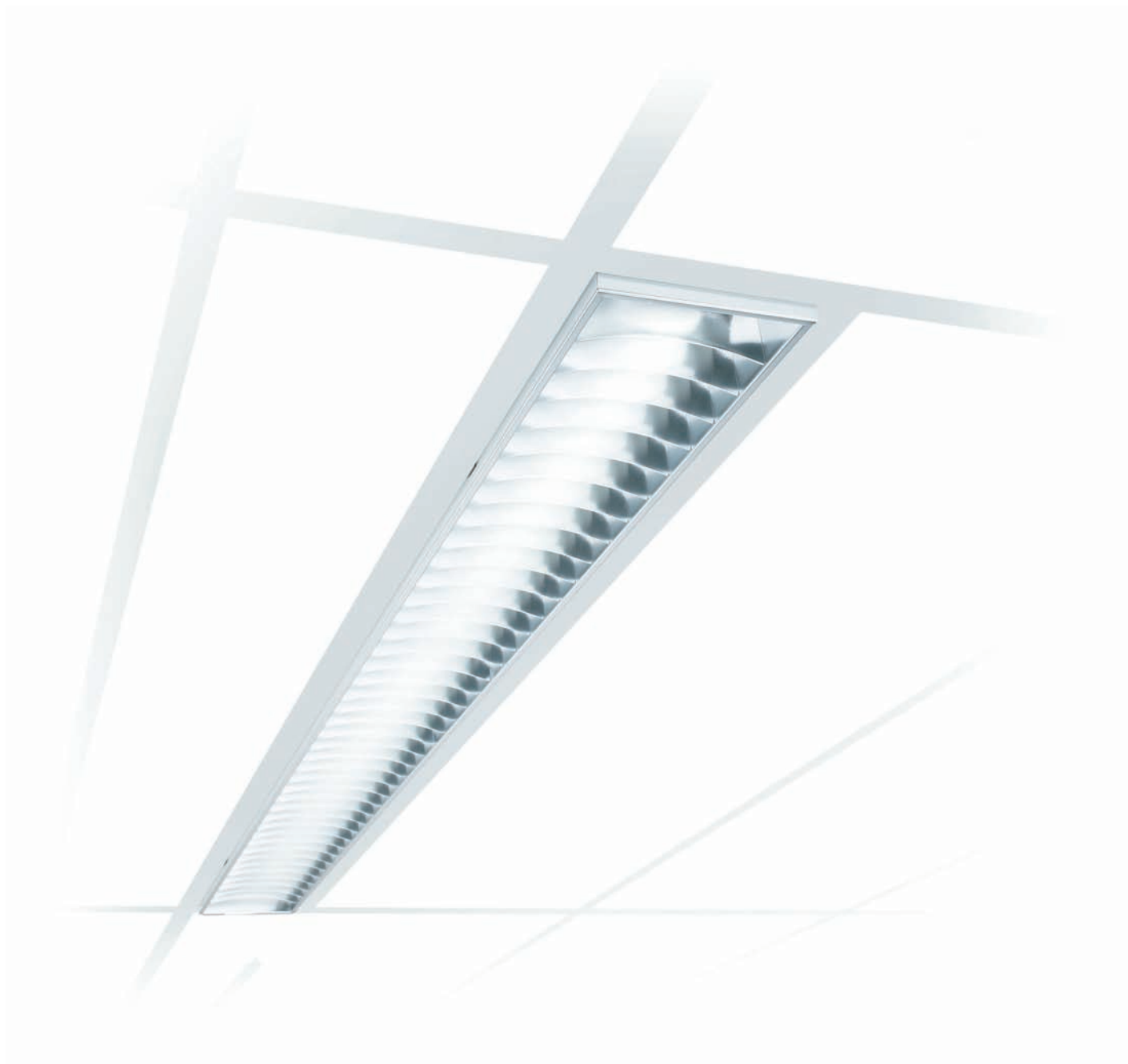
TBS490 recessed luminaire with TL5 fluorescent lamp(s) and semi-high-gloss optic with 3D micro-lamellae (D8) or very high-reflectance 3D micro-lamellae (D8-VH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS490 2x14W/830 HFP D8 PI	1.90	493381 00
TBS490 2x28W/830 HFP D8 PI	3.50	493398 00
TBS490 2x35W/830 HFP D8 PI	4.40	493404 00
TBS490 2x49W/830 HFP D8 PI	4.40	493411 00

Please contact your local Philips representative for additional configurations

TBS600



TBS600 – wide choice of light beams



TBS600 is an innovative miniature luminaire for 1 or 2 TL5 (16 mm) fluorescent lamps with a choice of different optics, including Omnidirectional Luminance Control (OLC) optics. TBS600 offers a choice of standard symmetrical light distributions or special distributions like asymmetric, bi-directional and wide beams. It has an integrated top reflector with sleeves for air exhaust, making it suitable for integration in air-handling installations. A dedicated version is available for extended air handling. TBS600 can be mounted individually or in line. Extra-long versions are available.



www.philips.com/lighting



TBS600 recessed luminaire with
Luxsense lighting control



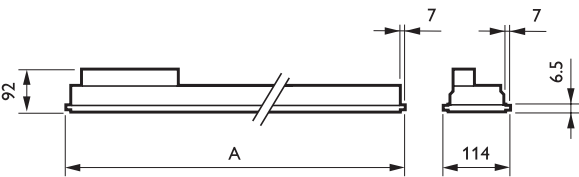
TBS600			
Type	TBS600		
Ceiling grid	Module size: 300 mm Strip and plasterboard ceilings		Matt mirror; ribbed louver; wide beam (M2-WB) Mirror with decorative green louvers (M-DGN)
Light source	Compact fluorescent: 1 x, 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80 W	Optical cover	Decorative opal cover (OD)
Lamp included	Yes (lamp color 451 (ActiViva Natural), 452 (ActiViva Active), 830 or 840) No	Connection	Wieland connector (W) Push-in connector (PI)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)	Option	Emergency lighting: 3 hours (EL3) Lighting controls: Luxsense daylight controller (LX) ActiLume multi controller (ACL) Separate switching of lamps (SW) Euro fuse (FU) included Protection foil (FL) to protect the optic during installation
Optic	High-gloss optic, 3D mini-lamellae (C7) High-gloss optic, 3D mini lamellae (C6) Semi-high-gloss optic, 3D mini lamellae (D7) Semi-high-gloss optic, 3D mini lamellae (D6) Matt optic, 3D mini lamellae (M6) Matt optic, double parabolic louvers, asymmetric (M6-A) Matt optic, double parabolic louvers, bi-directional beam (M6-BD) Matt optic, double parabolic louvers, wide beam (M6-WB) Matt mirror; ribbed cross louvers (M2) Matt mirror; ribbed louver; asymmetric (M2-A) Matt mirror; ribbed louver; bi-directional beam (M2-BD)	Material	Housing: zinc-coated sheet steel, white
		Installation	Individual or in-line: with ceiling brackets in strip or plasterboard ceilings Through-wiring possible
		Accessory	Suspension bracket set
		Remarks	Extensions in length of housing possible Housing has safety suspension points for chain The luminaire offers air-handling functionality via the housing (not with OD cover) All luminaires have an integrated top reflector
		Main applications	Office, recreational, healthcare, education, retail

 for optical cover



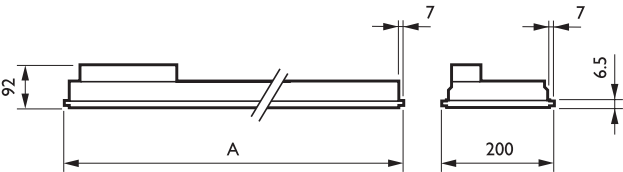


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



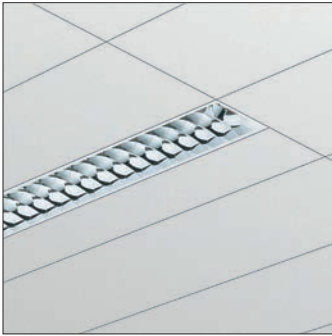
TBS600 1 x TL5

	A
14W	597
28W, 54W	1197
35W, 49W	1497



TBS600 2 x TL5

	A
14W	597
28W	1197
35W	1497

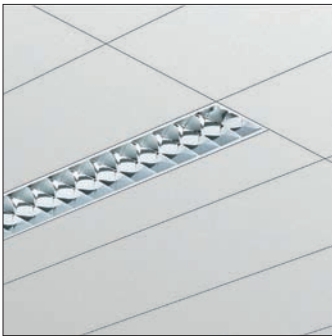


TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC high-gloss high-efficiency aluminum optic with 3D lamellae (C7)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 1xTL5-28W/840 HFP C7 PI	3.50	063171 00

Please contact your local Philips representative for additional configurations

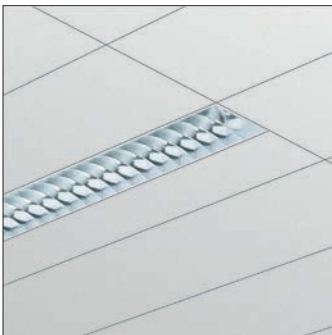


TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 1xTL5-28W/840 HFP C6 PI	3.50	590899 00

Please contact your local Philips representative for additional configurations



TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-efficiency aluminum optic with 3D lamellae (D7)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 1xTL5-28W/840 HFP D7 PI	3.50	594156 00

Please contact your local Philips representative for additional configurations



TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 1xTL5-28W/840 HFP D6 PI	3.50	590905 00

Please contact your local Philips representative for additional configurations

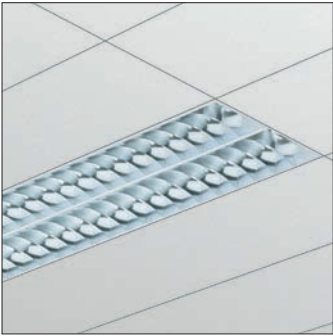


TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 1xTL5-28W/840 HFP M6 PI	3.50	590912 00

Please contact your local Philips representative for additional configurations



TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-efficiency aluminum optic with 3D lamellae (D7)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 2xTL5-28W/840 HFP D7 W	4.50	058092 00
TBS600 2xTL5-28W/840 HFP D7 PI	4.50	594170 00

Please contact your local Philips representative for additional configurations



TBS600 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 2xTL5-28W/830 HFP D6 W	4.50	591124 00

Please contact your local Philips representative for additional configurations



TBS600 recessed luminaire with TL5 fluorescent lamp(s) and decorative opal cover (OD)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS600 2xTL5-28W/840 HFP OD PI	4.50	590394 00

Please contact your local Philips representative for additional configurations

Accessories

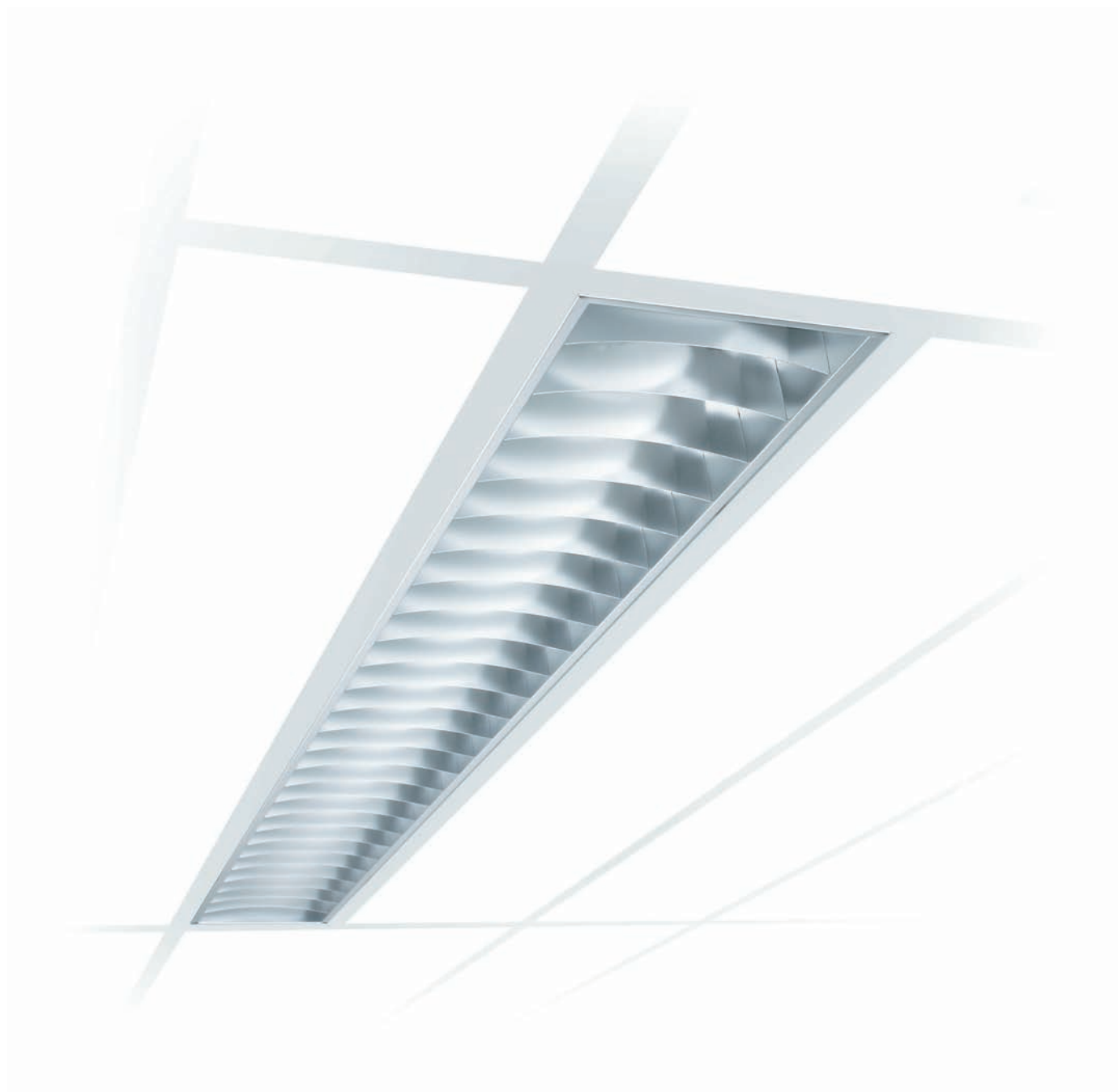


Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99



Indolight TBS3 I 5/3 I 8/340 TL5



Indolight – extensive functionality

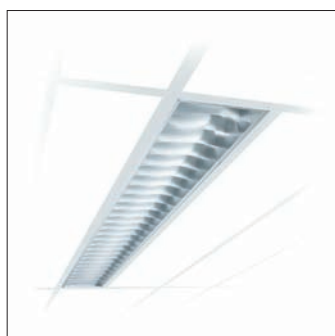
Indolight TBS315, 318 and 340 is a recessed luminaire for 1 or 2 TL5 fluorescent lamps with a choice of different high-performance covers and optics, some of which feature Omnidirectional Luminance Control (OLC). The luminaire is suitable for concealed or exposed ceiling systems (modular 600 mm in length only). It offers air-handling functionality via the housing and is supplied ready for use, including extra features such as emergency lighting and electronic lighting controls. Extended versions can be ordered.

This luminaire range is also available with TL-D lamps.

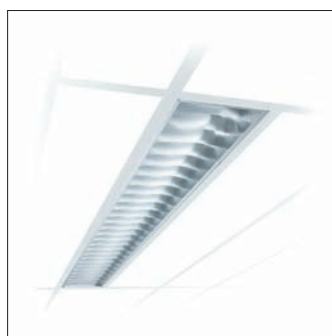
Project solution with Dynamic Lighting: Indolight TBS375 offers the possibility to change the color temperature of the light between warm white (2700 K) and cool white (6500 K). For more information, please visit www.dynamiclighting.philips.com.

www.philips.com/lighting

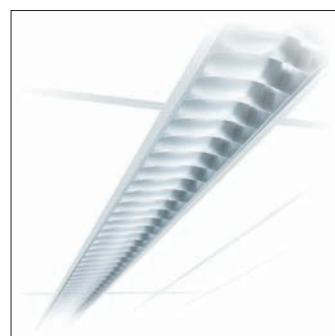
Indolight TBS315



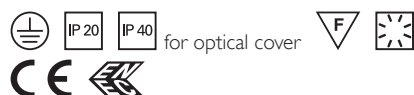
Indolight TBS318



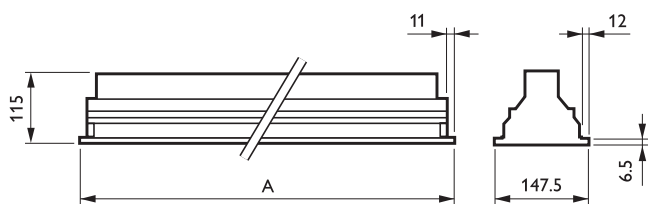
Indolight light line TBS340



Indolight			
Type	TBS315	Optical cover	Decorative opal cover (OD) Opal cover (O) Prismatic cover (P)
Ceiling grid	Module size: 300 mm Exposed tee and concealed fixed ceilings	Connection (outside housing)	Wieland connector (W) Push-in connector (PI)
Light source	Fluorescent: 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80 W	Option	Top reflector (T) in combination with high-reflective optics Emergency lighting: 3 hours (EL3) Lighting control: Luxsense daylight controller (LX) ActiLume multi controller (ACL) Separate switching (SW) Euro fuse (FU) included Protection foil (FL) to protect the optic during installation Safety cable (SC)
Lamp included	Yes (lamp color 451 (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No	Material	Housing: zinc-coated steel, white
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)	Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids
Optic	High-gloss optic, high-reflective (C6-H) High-gloss optic, double parabolic 50° (C6) Semi-high-gloss optic, high-reflective (D6-H) Semi-high-gloss optic, bi-directional 30° (D6-BD30) Semi-high-gloss optic, double parabolic (D6) Matt optic, high-reflective (M6-H) Matt optic, double parabolic louvers, closed (M6) Matt optic, double parabolic louvers, asymmetric (M6-A) Matt optic, double parabolic, bi-directional 45° (M6-BD45) Matt mirror; ribbed cross louvers (M2) Matt mirror; ribbed louvers, wide beam (M2-WB) Matt mirror; ribbed louvers, asymmetric (M2-A) Matt mirror; ribbed louvers, bi-directional 45° (M2-BD45) Lamellae louvers, flat cross louvers (L1) Mirror with decorative green louvers (M-DGN) Asymmetrical mirror (A)	Accessory	Suspension bracket set
		Remarks	Dedicated luminaires with Dynamic Lighting functionality available (TBS375 types) The luminaire offers air-handling functionality via the housing Extra-long version of housing can be ordered Also available with TL-D lamps
		Main applications	Office, education, healthcare, recreation, retail, industry



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS315

	A
14W	597
28W, 54W	1197
35W, 49W	1497

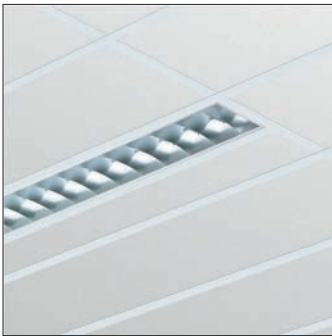


Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6) or high-reflectance 3D lamellae (C6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 1xTL5-28W/840 HFP C6 PI FL	4.80	627885 00
TBS315 2xTL5-28W/840 HFP C6 PI FL	3.10	627939 00
TBS315 1xTL5-35W/840 HFP C6 PI FL	5.70	627984 00
TBS315 2xTL5-35W/840 HFP C6 PI FL	5.70	628035 00

Please contact your local Philips representative for additional configurations

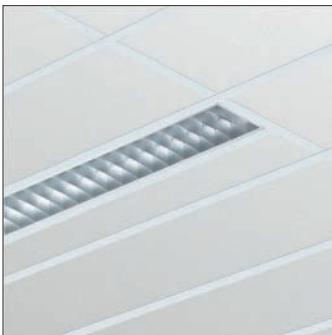


Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6) or high-reflectance 3D lamellae (D6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 1xTL5-28W/840 HFP D6 PI FL	4.80	627892 00
TBS315 2xTL5-28W/840 HFP D6 PI FL	4.80	627946 00
TBS315 1xTL5-35W/840 HFP D6 PI FL	5.70	627991 00
TBS315 2xTL5-35W/840 HFP D6 PI FL	5.70	628042 00

Please contact your local Philips representative for additional configurations

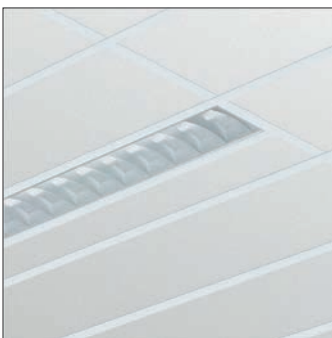


Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 1xTL5-35W/840 HFP M6 FU W FL	5.70	614816 00

Please contact your local Philips representative for additional configurations



Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 1xTL5-35W/840 HFP M2 FU W FL	5.70	614809 00

Please contact your local Philips representative for additional configurations



Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and white painted aluminum optic with flat lamellae (LI)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 2xTL5-49W/830 HFP LI W FL	5.70	624242 00

Please contact your local Philips representative for additional configurations



Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and asymmetric beam

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 2xTL5-14W/840 HFP A W	2.10	635446 00

Please contact your local Philips representative for additional configurations



Indolight TBS315 recessed luminaire with TL5 fluorescent lamp(s) and decorative opal cover (OD)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS315 1xTL5-28W/830 HFP OD W	4.80	743059 00

Please contact your local Philips representative for additional configurations

Accessories



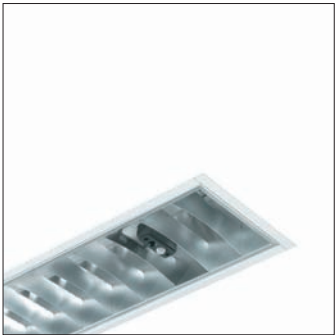
Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99
ZBS300 SMB	598161 99

Indolight TBS315 recessed luminaire with Luxsense lighting control

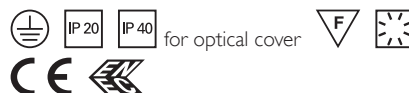


Indolight TBS315 recessed luminaire with ActiLume lighting control

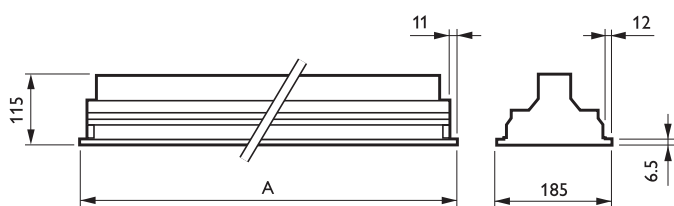




Indolight			
Type	TBS318	Optical cover	Opal cover (O) Prismatic cover (P) Decorative opal cover (OD)
Ceiling grid/system	Module size: 300 mm Exposed tee and concealed fixed ceilings	Connection (outside housing)	Wieland connector (W) Push-in connector (PI)
Light source	Fluorescent: 1 x or 2 x MASTER TL5 / G5 / 14, 21, 24, 28, 35, 39, 49, 54, 80 W	Option	Top reflector (T) in combination with high-reflective optics Emergency lighting: 3 hours (EL3) Lighting control: Luxsense daylight controller (LX) ActiLume multi controller (ACL) Separate switching (SW) Euro fuse (FU) included Protection foil (FL) to protect the optic during installation Safety cable (SC)
Lamp included	Yes (lamp color 451 (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No	Material	Housing: zinc-coated steel, white
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)	Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids
Optic	High-gloss optic, high-reflective (C6-H) High-gloss optic, double parabolic 50° (C6) Semi-high-gloss optic, high-reflective (D6-H) Semi-high-gloss optic, double parabolic (D6) Matt optic, high-reflective (M6-H) Matt optic, double parabolic louvers, closed (M6) Matt optic, double parabolic louvers, asymmetric (M6-A) Matt optic, double parabolic, bi-directional 30° (M6-BD30) Matt optic, double parabolic, bi-directional 45° (M6-BD45) Matt mirror; ribbed cross louvers (M2) Matt mirror; ribbed louvers, wide beam (M2-WB) Matt mirror; ribbed louvers, asymmetric (M2-A) Matt mirror; ribbed louvers, bi-directional 30° (M2-BD30) Matt mirror; ribbed louvers, bi-directional 45° (M2-BD45)	Accessory	Suspension bracket set, longitudinal suspension strip
		Remarks	Dedicated luminaires available with air-handling functionality (TBN types) Extra-long version of housing can be ordered Also available with TL-D lamps
		Main applications	Office, education, healthcare, recreation, retail, industry



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS318

	A
14W	597
28W, 54W	1197
35W, 49W	1497



Indolight TBS318 recessed luminaire with TL5 fluorescent lamp(s) and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6) or high-reflectance 3D lamellae (C6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS318 1xTL5-28W/840 HFP C6-H FU W FL	5.00	614601 00
TBS318 1xTL5-28W/840 HFP C6 FU W FL	5.00	614618 00
TBS318 1xTL5-28W/830 HFD C6 ACL W FL	5.00	561111 00

Please contact your local Philips representative for additional configurations



Indolight TBS318 recessed luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6) or high-reflectance 3D lamellae (D6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS318 2xTL5-28W/830 HFP D6 W FL	5.00	605524 00
TBS318 2xTL5-35W/830 HFP D6 W FL	5.90	605531 00

Please contact your local Philips representative for additional configurations



Indolight TBS318 recessed luminaire with TL5 fluorescent lamp(s) and matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS318 1xTL5-35W/840 HFP M2 FU W FL	5.90	614625 00
TBS318 2xTL5-35W/840 HFP M2 FU W FL	5.90	614656 00

Please contact your local Philips representative for additional configurations



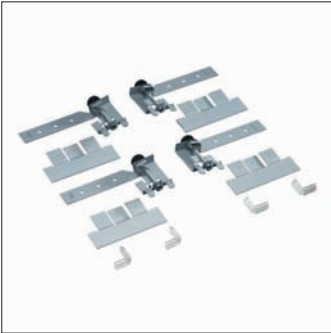
Indolight TBS318 recessed luminaire with TL5 fluorescent lamp(s) and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS318 1xTL5-35W/840 HFP M6 FU W FL	5.90	614632 00
TBS318 2xTL5-28W/840 HFP M6 FU W FL	5.00	614663 00

Please contact your local Philips representative for additional configurations

Accessories



Suspension bracket set for recessed mounting in false ceilings with concealed profiles


Product ID	EOC
ZBS300 SMB (4PCS)	598147 99



Adaptor bracket for strip ceilings for TL-D 18W/TL5 14/24W (LP18), TL-D 36W/TL5 28/54W (LP36) and TL-D 58W/TL5 35/49/80W (LP58). Adjustment (all sites): 9-94 mm

Product ID	EOC
ZBS318 LP18	706092 99
ZBS318 LP36	706559 99
ZBS318 LP58	706719 99

Indolight TBS318 recessed luminaire with suspension strip, longitudinal

A perspective view of the Indolight TBS318 recessed luminaire, showing its long, rectangular profile and the integrated suspension strip on the side.

Indolight TBS318 recessed luminaire with Luxsense lighting control

A top-down view of the Indolight TBS318 recessed luminaire, highlighting the internal components and the Luxsense lighting control sensor.

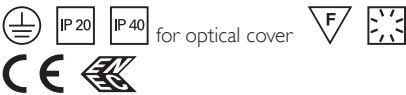
Indolight TBS318 recessed luminaire with ActiLume lighting control

A top-down view of the Indolight TBS318 recessed luminaire, showing the internal components and the ActiLume lighting control sensor.

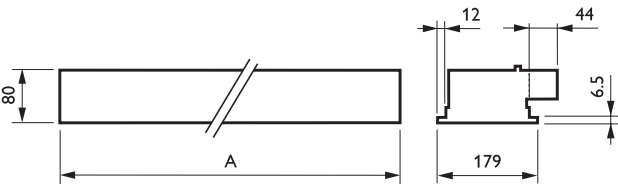


	Indolight
Type	TBS340 (for line arrangements)
Ceiling system	Module size: 300 mm Concealed fixed ceilings
Light source	Fluorescent: 1 x or 2 x MASTER TL5 / G5 / 14, 24, 28, 35, 49, 54, 80 W
Lamp included	Yes (lamp color 451 (ActiViva Natural), 452 (ActiViva Active), 827, 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator; DALI (HFD) High Frequency Regulator (HFR)
Optic	High-gloss optic, double parabolic 50° (C6) Semi-high-gloss optic, double parabolic (D6) Matt mirror; ribbed cross louvers (M2) Lamellae louvers, flat cross louvers (L1)
Optical cover	Decorative opal cover (OD)

Connection (outside housing)	Push-in connector (PI)
Option	Emergency lighting: 3 hours (EL3) Through-wiring: 1-phase (TW1), 3-phase (TW3) Protection foil (FL) to protect the optic during installation Safety cable (SC)
Material	Zinc-coated steel, white Installation in line; with ceiling brackets in concealed ceiling grids
Accessory	Suspension bracket set, end caps
Remarks	Housing has safety suspension points for chain, cable or threaded rod Also available with TL-D lamps
Main applications	Office, education, healthcare, recreational

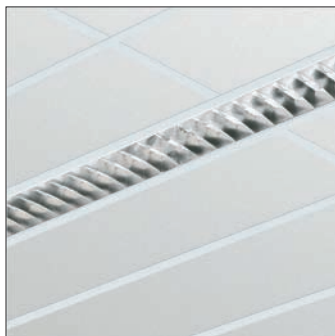


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS340

	A
28W, 54W	1178
35W, 49W	1478

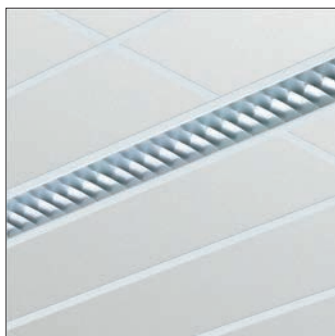


Indolight TBS340 recessed continuous-line luminaire with TL5 fluorescent lamp(s) and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6) or high-reflectance 3D lamellae (C6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS340 1xTL5-28W/840 HFP C6 PI	2.15	639574 00
TBS340 1xTL5-35W/840 HFP C6 PI	3.30	639604 00
TBS340 2xTL5-28W/840 HFP C6 PI	2.15	639666 00
TBS340 2xTL5-35W/840 HFP C6 PI	3.30	639697 00

Please contact your local Philips representative for additional configurations

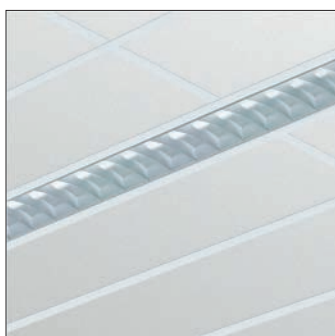


Indolight TBS340 recessed continuous-line luminaire with TL5 fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6) or high-reflectance 3D lamellae (D6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS340 1xTL5-28W/840 HFP D6 PI	2.15	639581 00
TBS340 1xTL5-35W/840 HFP D6 PI	3.30	639611 00
TBS340 2xTL5-28W/840 HFP D6 PI	2.15	639673 00
TBS340 2xTL5-35W/840 HFP D6 PI	3.30	639703 00

Please contact your local Philips representative for additional configurations



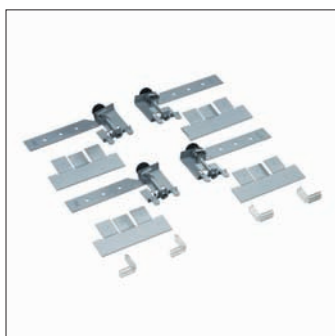
Indolight TBS340 recessed continuous-line luminaire with TL5 fluorescent lamp(s) and matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS340 1xTL5-28W/840 HFP M2 PI	2.15	639567 00
TBS340 1xTL5-35W/840 HFP M2 PI	3.30	639598 00
TBS340 2xTL5-28W/840 HFP M2 PI	2.15	639659 00
TBS340 2xTL5-35W/840 HFP M2 PI	3.30	639680 00

Please contact your local Philips representative for additional configurations

Accessories



Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99



A set of two end-caps

Product ID	EOC
ZBS340 EP	704326 99

EFix TBS260



EFix – simple mounting

EFix recessed TBS260 is a modular recessed luminaire for TL5 fluorescent lamps. Measuring only 55 mm in overall height and featuring a very flat rim, it fits in 600 mm grids in exposed, concealed and plaster ceilings.

EFix recessed TBS260 offers a choice of mini-optics and has been optimized for general lighting applications and offers standard slots for ventilation.

The optional Luxsense control delivers automatic energy savings. By reacting to the level of daylight the artificial light will be adjusted, enabling significant savings on energy costs. The luminaire comes with an external connection system enables the mains connection to be made without opening the luminaire and lamps included, making it extremely easy to mount in position. The EFix recessed TBS260 range comprises square 3- and 4-lamp and rectangular 2-lamp versions.

EFix surface-mounted TCS260 and EFix suspended TPS260 complete Philips' range of luminaires for general lighting applications in offices and shops.

www.philips.com/lighting

2-lamp



3-lamp







4-lamp



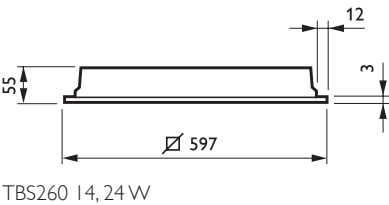
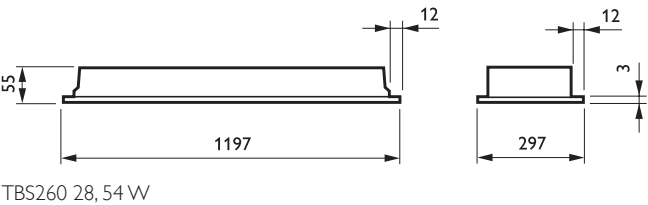
EFix recessed TBS260	
Type	TBS260
Ceiling grid/system	Module size: modules 600 x 600, 300 x 1200, optional 600 x 1200 mm Exposed tee, concealed tee and plasterboard ceilings
Light source	Fluorescent: rectangular: 2 x MASTER TL5 / G5 / 28, 54 W, optional 3 x or 4 x square: 3 x or 4 x MASTER TL5 / G5 / 14, 24 W
Lamp included	Yes (lamp color 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR)
Optic	High-gloss optic, double parabolic (C6) Semi-high-gloss optic, double parabolic (D6) Matt optic, double parabolic optic (M6) Matt mirror; ribbed cross louvers (M2)
Optical cover (only for 14 W square version)	Prismatic cover (P)
Connection	Wieland-like push-in connector 3 poles (W) or Wieland 5 poles (W5) Push-in connector (PI)

Option	Emergency lighting: 1 hour (EL1), 3 hours (EL3) Lighting controls: Luxsense daylight controller (LX) Separate switching of lamps (SW) Safety cable (SC)
Material	Housing: pre-lacquered steel, white Optic: aluminum Optical cover: PET
Installation	Individual; lay-in in exposed ceiling grid or with ceiling brackets in concealed ceiling grids or plasterboard ceilings (plaster thickness 13, 15, 18 or 26 mm)
Accessory	Bracket ZBSI60 MB (4 pcs) for concealed ceiling, clip ZGS260 PLA (40 pcs) for plaster ceiling, T-connector M/F: ZBSI60 TC3 (4 pcs)
Remarks	The luminaire offers air-handling functionality via the housing (not with P cover)
Main applications	Office, education, retail

 for prismatic versions 



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.





EFix TBS260 recessed luminaire with TL5 fluorescent lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 2xTL5-28W/840 HFR C6 LX PI	3.20	699073 00
TBS260 2xTL5-28W/840 HFP C6 PI	3.27	699479 00

Please contact your local Philips representative for additional configurations

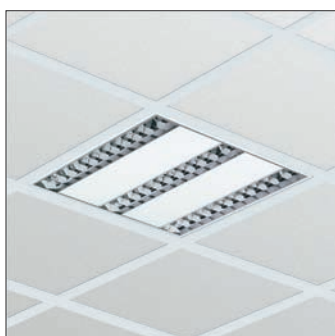


EFix TBS260 recessed luminaire with TL5 fluorescent lamps and matt aluminum optics with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 2xTL5-54W/840 HFP M2 W	3.21	698519 00
TBS260 2xTL5-28W/840 HFP M2 PI	3.21	699967 00

Please contact your local Philips representative for additional configurations

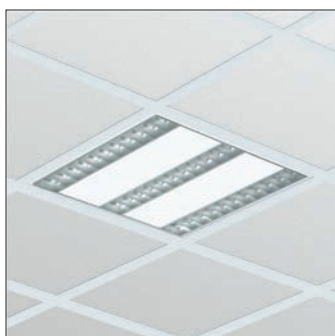


EFix TBS260 recessed luminaire with TL5 fluorescent lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 3xTL5-14W/840 HFP C6 PI	3.11	698601 00
TBS260 3xTL5-14W/840 HFR C6 PI	3.36	699516 00
TBS260 3xTL5-14W/840 HFR C6 LX PI	3.33	699523 00

Please contact your local Philips representative for additional configurations

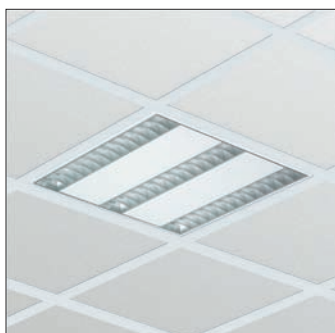


EFix TBS260 recessed luminaire with TL5 fluorescent lamps and OLC semi-high-gloss aluminum optics with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 3xTL5-14W/840 HFP D6 PI	3.11	698595 00
TBS260 3xTL5-14W/840 HFR D6 PI	3.36	699714 00
TBS260 3xTL5-14W/840 HFR D6 LX PI	3.33	699738 00

Please contact your local Philips representative for additional configurations



EFix TBS260 recessed luminaire with TL5 fluorescent lamps and matt aluminum optics with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 3xTL5-14W/840 HFP M2 PI	3.06	699684 00

Please contact your local Philips representative for additional configurations



EFix TBS260 recessed luminaire with TL5 fluorescent lamps and prismatic cover (P)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 3xTL5-14W/840 HFP P PI	3.42	571622 00

Please contact your local Philips representative for additional configurations

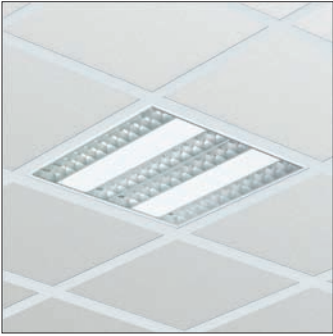


EFix TBS260 recessed luminaire with TL5 fluorescent lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 4xTL5-14W/840 HFP C6 PI	3.10	698779 00
TBS260 4xTL5-14W/840 HFR C6 PI	3.34	698854 00
TBS260 4xTL5-14W/840 HFR C6 LX PI	3.37	698861 00

Please contact your local Philips representative for additional configurations



EFix TBS260 recessed luminaire with TL5 fluorescent lamps and OLC matt aluminum optics with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS260 4xTL5-14W/840 HFP M6 PI	3.13	698762 00
TBS260 4xTL5-14W/840 HFR M6 PI	3.34	699530 00
TBS260 4xTL5-14W/840 HFR M6 LX PI	3.37	699554 00

Please contact your local Philips representative for additional configurations

Accessories



Brackets for plaster ceilings (ZGS260 PLA)

Product ID	EOC
ZGS260 PLA (40PCS)	570960 99



TBS257



TBS257 – the flat performer

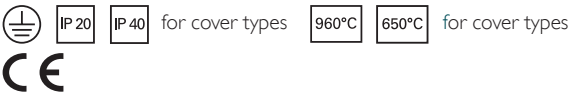
TBS257 is a modular low-height (only 53 mm) recessed luminaire for TL5 fluorescent lamps for office and retail applications. It features high-performance miniature optics which combine high efficiency (up to 70%), optimized delta-shaped light beam and OLC all-around glare control ($L_m < 1000 \text{ cd/m}^2$ at $\gamma \geq 65^\circ$ and $UGR_R < 19$). Used in conjunction with electronic gear they reduce energy consumption to give a very low W/m^2 .

TBS257 recessed luminaire with 2x28W TL5 fluorescent lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

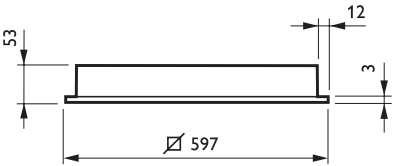


TBS257	
Type	TBS257
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee, concealed tee, and plasterboard ceilings
Light source	Fluorescent: 2 x MASTER TL5 / G5 / 28 W (rectangular version) 3 x or 4 x MASTER TL5 / G5 / 14 W (square version)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic Ballast Standard (EBS) Electronic Ballast Economy (EBE), 28 W version only
Optic	High-gloss optic, double parabolic, closed (C6) Semi-high-gloss optic, double parabolic (D6) Matt mirror; ribbed cross louvers (M2)

Optical cover	Prismatic cover (P) Opal cover (O)
Connection	Screw connection
Option	Available on request: Emergency lighting, 3 hours Gear; High Frequency Performer or Regulator Lamp types, 24 W, 35 W, 49 W, 54 W, 80 W Connection, Wieland
Material	Housing: post-painted steel, white RAL9010 Optic: high-grade anodized aluminum Optical cover: PET
Installation	Individual; lay-in exposed ceiling grid or with ceiling brackets in concealed ceiling grids or plasterboard ceilings
Accessory	Bracket ZBS257 SMB SET40 for concealed ceiling (40 pcs suitable to install 10 luminaires)
Main applications	Office



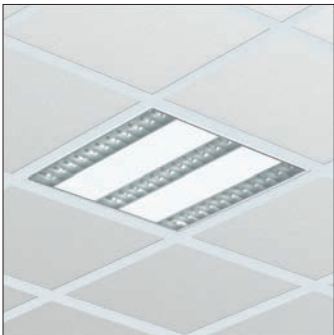
Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



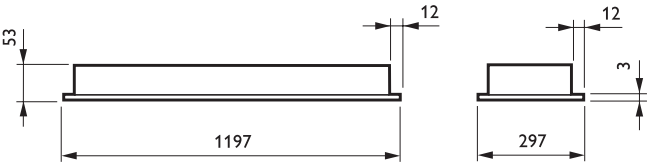
TBS257 14 W



TBS257 recessed luminaire with TL5 fluorescent lamps and OLC high-gloss aluminum optics 3D lamellae (C6)



TBS257 recessed luminaire with TL5 fluorescent lamps and OLC semi-high-gloss aluminum optics with 3D lamellae (D6)



TBS257 28 W

Preferred selection

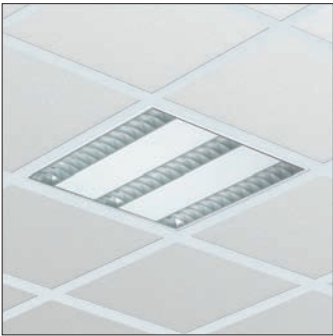
Product ID	Order Code
TBS257 2xTL5-28W EBS C6	9131 010 610 xx
TBS257 2xTL5-28W EBE C6	9131 010 615 xx
TBS257 3xTL5-14W EBS C6	9131 010 600 xx
TBS257 4xTL5-14W EBS C6	9131 010 605 xx

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Order Code
TBS257 2xTL5-28W EBS D6	9131 010 611 xx
TBS257 2xTL5-28W EBE D6	9131 010 616 xx
TBS257 3xTL5-14W EBS D6	9131 010 601 xx
TBS257 4xTL5-14W EBS D6	9131 010 606 xx

Please contact your local Philips representative for additional configurations

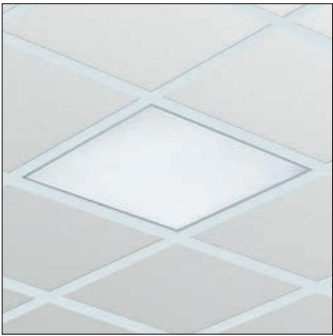


TBS257 recessed luminaire with TL5 fluorescent lamps and matt aluminum optics with profiled lamellae (M2)

Preferred selection

Product ID	Order Code
TBS257 2xTL5-28W EBS M2	9131 010 612 xx
TBS257 2xTL5-28W EBE M2	9131 010 617 xx
TBS257 3xTL5-14W EBS M2	9131 010 602 xx
TBS257 4xTL5-14W EBS M2	9131 010 607 xx

Please contact your local Philips representative for additional configurations



TBS257 recessed luminaire with TL5 fluorescent lamps and prismatic cover (P)

Preferred selection

Product ID	Order Code
TBS257 2xTL5-28W EBS P	9131 010 613 xx
TBS257 2xTL5-28W EBE P	9131 010 618 xx
TBS257 3xTL5-14W EBS P	9131 010 603 xx
TBS257 4xTL5-14W EBS P	9131 010 608 xx
TBS257 2xTL5-28W EBS O	9131 010 614 xx
TBS257 2xTL5-28W EBE O	9131 010 619 xx
TBS257 3xTL5-14W EBS O	9131 010 604 xx
TBS257 4xTL5-14W EBS O	9131 010 609 xx

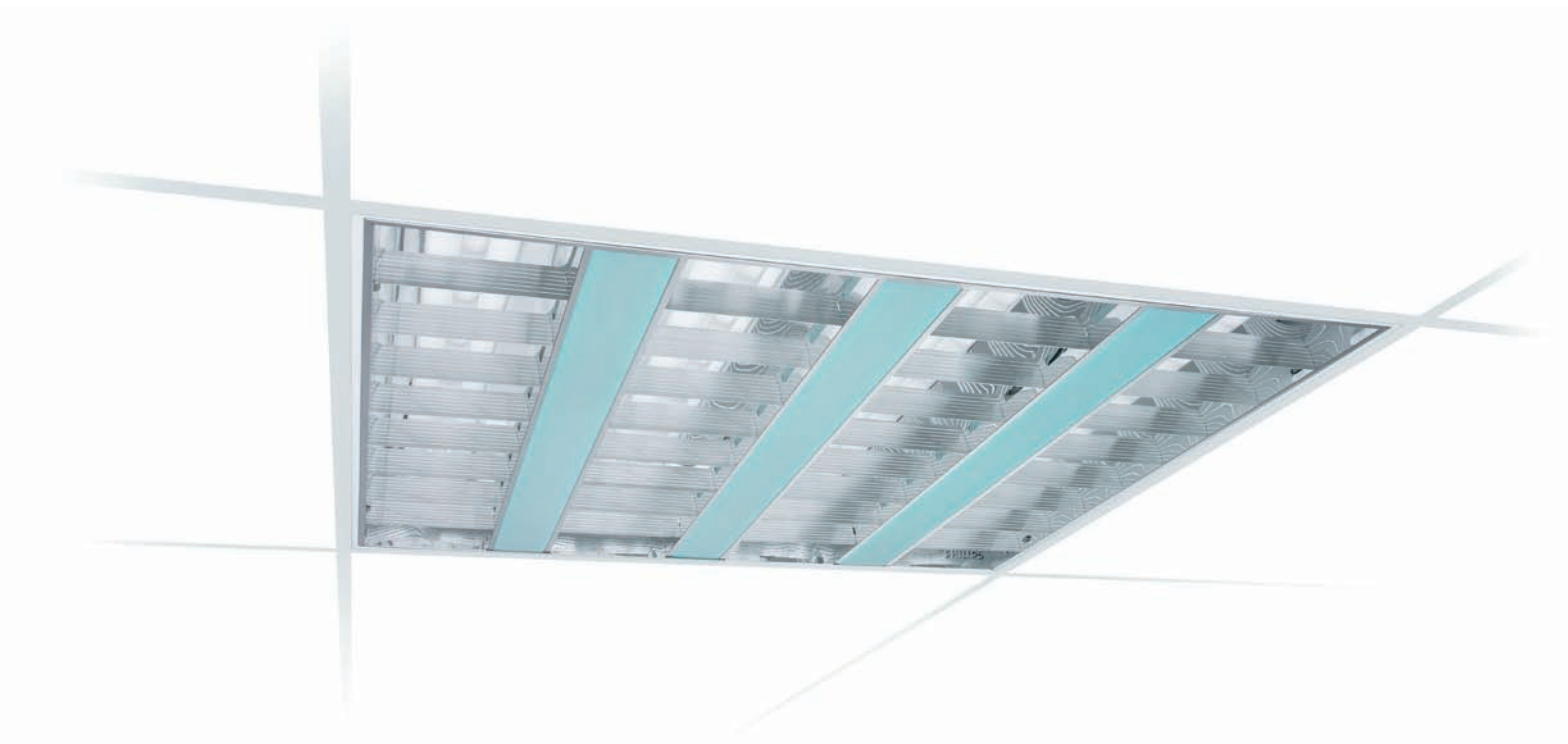
Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Order Code
ZBS257 SMB SET40	Mounting brackets	9131 010 800 xx



TBS288



TBS288 – crisp, stimulating light with a subtle tint

TBS288 is a TL5 electronic office lighting system for both task and general lighting in office spaces and department stores. It features a super slim, stylish design, easy maintenance and adds a hint of color to office ceilings to enhance the ambience.

Light filter slots allow the blue infill panel to give a stimulating subtle tint

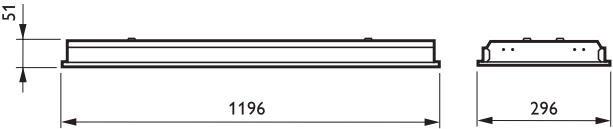


TBS288	
Type	TBS288
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee ceilings
Light source	Fluorescent: 3 x or 4 x TL5 Essential / G5 / 14 W (square version) 2 x TL5 Essential / G5 / 28 W (rectangular version)
Lamp included	Yes (light color 840 or 865)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz (HF)
Optic	High-gloss optic, profiled louvers, blue infill panels (BL)

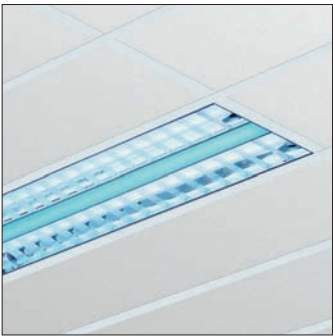
Connection	Screw connection
Material	Housing: post-painted steel, white Optic: filmed aluminum with anodized aluminum louvers Infill panels: PMMA (blue)
Installation	Individual; lay-in exposed ceiling grid
Main applications	Office



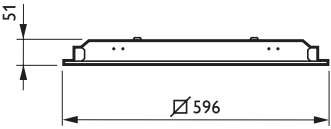
Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS288 2 x TL5



TBS288 recessed luminaire
2 x 28 W

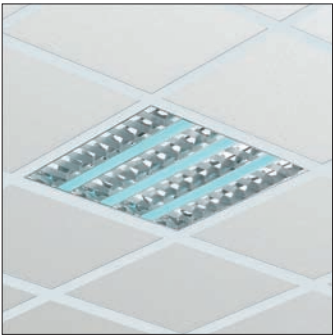


TBS288 3, 4 x TL5

Preferred selection

Product ID	Weight (kg)	Order Code
TBS288 2xTL5-28W/840 HF G2 BL ID	3.40	9114 009 51380
TBS288 2xTL5-28W/865 HF G2 BL ID	3.40	9114 009 50680

Please contact your local Philips representative for additional configurations



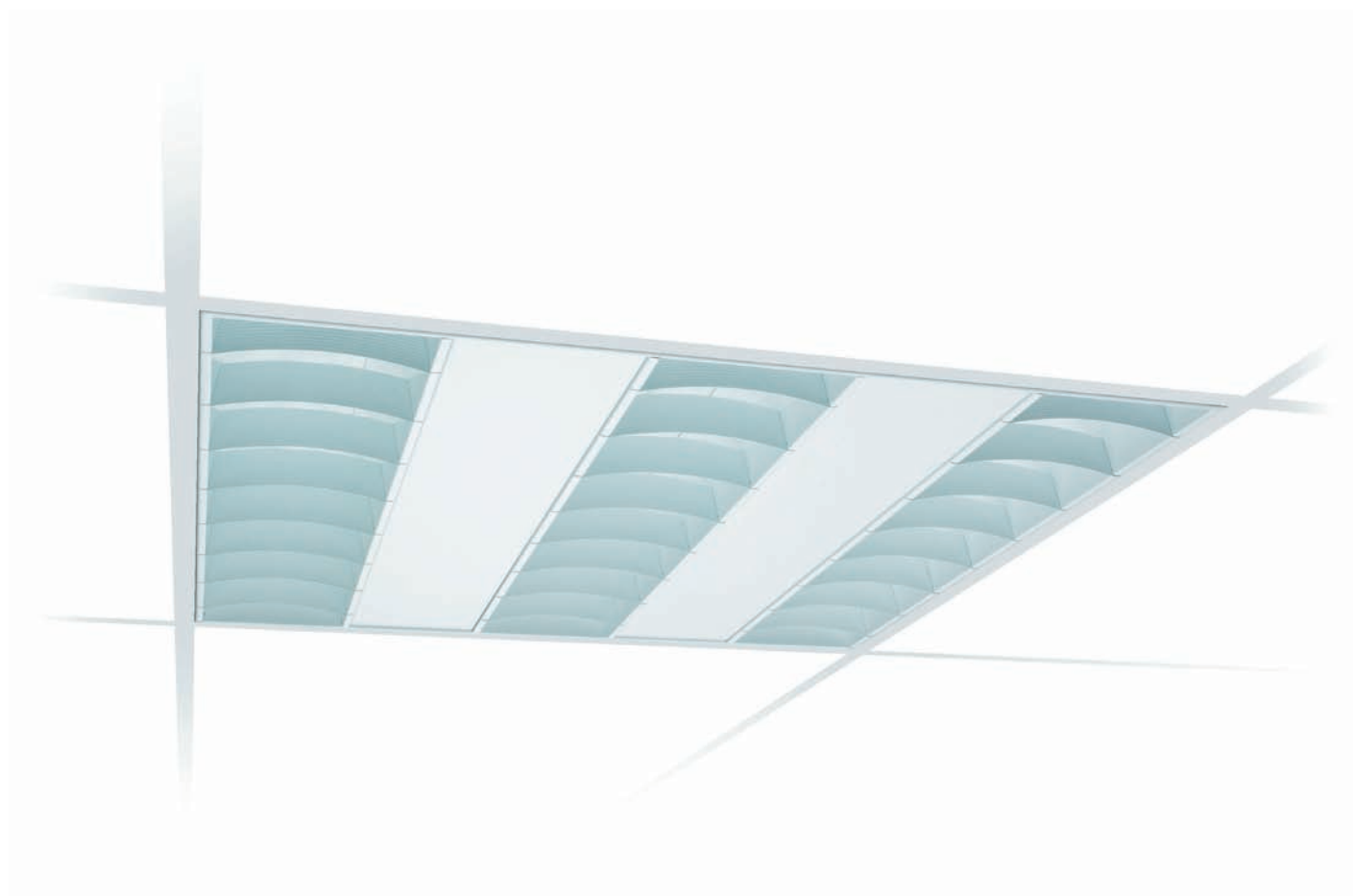
TBS288 recessed luminaire
3 x 14 W

Preferred selection

Product ID	Weight (kg)	Order Code
TBS288 3xTL5-14W/840 HF G2 BL ID	3.40	9114 009 51480
TBS288 3xTL5-14W/865 HF G2 BL ID	3.40	9114 009 50780
TBS288 4xTL5-14W/840 HF G2 BL ID	3.50	9114 009 51780
TBS288 4xTL5-14W/865 HF G2 BL ID	3.50	9114 009 51080

Please contact your local Philips representative for additional configurations

Indolight TBS330



Indolight TBS330 – extensive functionality

Indolight TBS330 recessed is a versatile, easy-to-install luminaire range that offers outstanding lighting performance and user comfort. Available with up to four TL-D lamps and in a variety of dimensions, the low-height Indolight TBS330 family provides the ideal recessed solution, whether for standard renovations or new buildings.

Indolight TBS330 luminaires fit in all standard ceiling systems such as exposed and concealed mineral ceilings, metal ceilings, etc. Installation is always fast and straightforward, thanks to the use of smart universal mounting brackets and simple plug-and-play connectors.

Wide application coverage

In general applications – e.g. in hospitals, schools, laboratories, industrial areas and other public buildings – Indolight TBS330's extensive range of optics and covers provides stylish, comfortable and effective lighting. In offices, Indolight TBS330's excellent glare control ensures visual comfort and helps people remain productive. And in shops, Indolight TBS330 creates a welcoming ambience, with its precision light distribution making the merchandise virtually leap out from the display racks.

www.philips.com/lighting

TBS330 2-lamp



TBS330 3-lamp

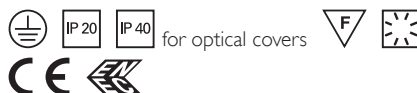


TBS330 4-lamp

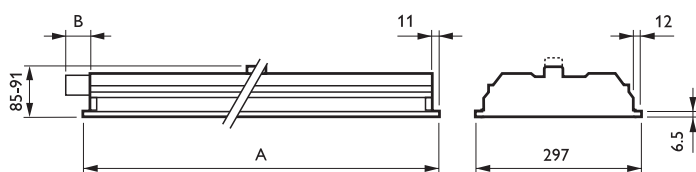


	Indolight
Type	TBS330
Ceiling system	Module size: 600 x 600, 300 x 600, 300 x 1200, 300 x 1500 mm Exposed tee and concealed fixed ceilings
Light source	Fluorescent: 1 x, 2 x, 3 x or 4 x MASTER TL-D / G13 / 18, 36, 58 W
Lamp included	Yes (lamp color 827, 830 or 840) No
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Inductive (I) Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator, DALI (HFD) High Frequency Regulator (HFR)
Optic	High-gloss optic, high-reflective (C6-H) High-gloss optic, double parabolic (C6) Semi-high-gloss optic, high-reflective (D6-H) Semi-high-gloss optic, double parabolic (D6) Matt optic, high-reflective (M6-H) Matt optic, double parabolic louvers (M6) Matt optic, double parabolic, bi-directional 30° (M6-BD30) Matt mirror, ribbed cross louvers (M2) Matt mirror, ribbed louvers, bi-directional 30° (M2-BD30) Lamellae louvers, flat cross louvers (L1) Mirror with decorative green louvers (M-DGN)

Optical cover	Acrylate micro lens optic (AC-MLO) Polycarbonate micro lens optic (PC-MLO) Decorative opal cover (OD) Opal cover (O) Prismatic cover (P)
Connection (outside housing)	Wieland connector (W) Push-in connector (PI)
Option	Emergency lighting: 3 hours (EL3) Lighting control: Luxsense daylight controller (LX) ActiLume multi controller (ACL) Separate switching (SW) Euro fuse (FU) included Infill plate: standard (IP), decorative (IPD) Protection foil (FL) to protect the optic during installation Safety cable (SC)
Material	Housing: zinc-coated steel, white
Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids
Accessory	Suspension bracket set
Remarks	The luminaire offers air-handling functionality via the housing Housing has safety suspension points for chain, cable or threaded rod
Main applications	Office, education, healthcare, recreation, retail, industry

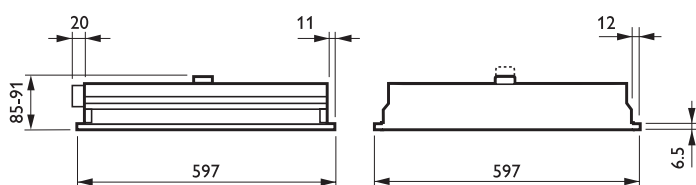


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS330 1, 2 x TL-D

	A	B
18W	597	44
36W	1197	54
58W	1497	54



TBS330 3, 4 x TL-D



Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 1xTL-D58W/830 HFP M2 W FL	8.10	625249 00
TBS330 1xTL-D36W/840 HFP M2 W FL	5.50	705668 00

Please contact your local Philips representative for additional configurations



Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and white painted aluminum optic with flat lamellae (L1)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 2xTL-D36W/840 HFP L1 W IP FL	5.50	705804 00

Please contact your local Philips representative for additional configurations

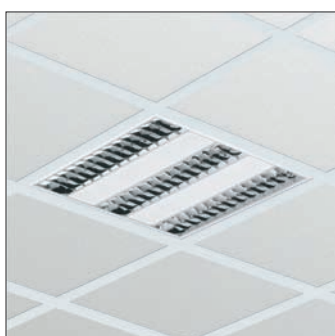


Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and decorative opal cover (OD)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 2xTL-D36W HFP OD PI IP	5.50	626765 00
TBS330 2xTL-D58W HFP OD PI IP	8.10	626901 00

Please contact your local Philips representative for additional configurations

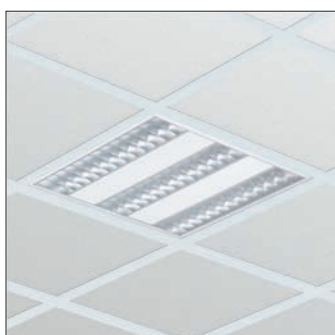


Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6) or high-reflectance 3D lamellae (C6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 3xTL-D18W HFP C6 PI IP	5.20	602691 00
TBS330 3xTL-D18W IC C6 PI IP	5.20	636153 00

Please contact your local Philips representative for additional configurations

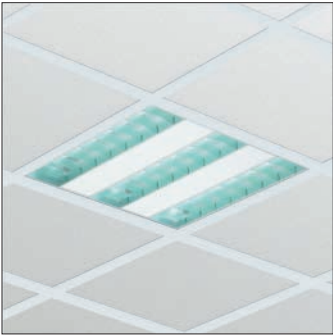


Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and OLC matt high-quality aluminum optic with 3D lamellae (M6) or high-reflectance 3D lamellae (M6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 3xTL-D18W HFP M6 PI IP	5.20	602776 00
TBS330 3xTL-D18W IC M6 PI IP	5.20	636177 00

Please contact your local Philips representative for additional configurations



Indolight TBS330 recessed luminaire with matt high quality aluminum optic with greenish translucent concave cross louvers (M-DGN)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 3xTL-D18W/840 HFP M-DGN PI IP FL	5.20	630519 00
TBS330 3xTL-D18W IC M-DGN PI IP	5.20	636207 00

Please contact your local Philips representative for additional configurations



Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6) or high-reflectance 3D lamellae (D6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 4xTL-D18W HFP D6 PI IP	5.20	602981 00

Please contact your local Philips representative for additional configurations



Indolight TBS330 recessed luminaire with TL-D fluorescent lamp(s) and decorative opal cover (OD)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS330 4xTL-D18W HFP OD PI IP	5.20	629421 00

Please contact your local Philips representative for additional configurations

Accessories

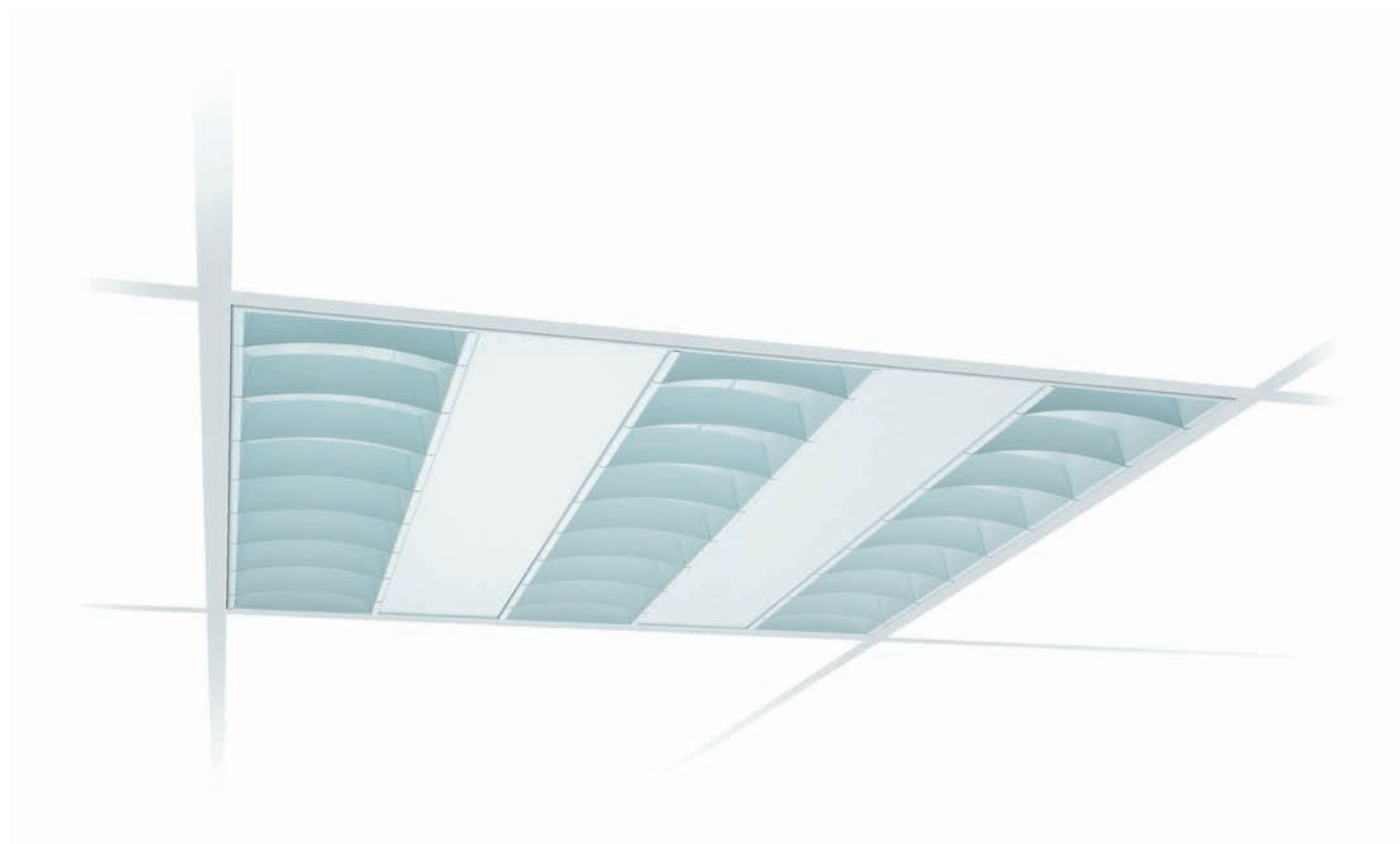


Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99



Indolight FBS330



Indolight – square of light

FBS330 is a square recessed luminaire, available in two different sizes (300, 500 and 600 mm), for PL-L and PL-S fluorescent lamps. It provides a choice of different high-performance optics and covers, including Omnidirectional Luminance Control (OLC) optics. The luminaire offers air-handling functionality via the housing. Accessories include suspension brackets for concealed ceilings.

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300 × 300



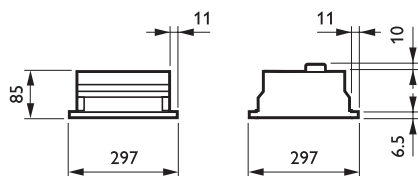
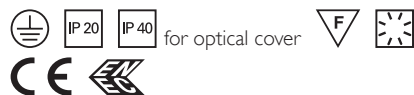
500 × 500



600 × 600



Indolight			
Type	FBS330		
Ceiling grid	Module size: 300 / 500 / 600 mm Exposed tee, concealed fixed and plasterboard ceilings		Matt mirror; ribbed cross louvers (M2) Lamellae louvers, flat cross louvers (L1)
Light source	Compact fluorescent: 2 x or 3 x MASTER PL-L 4 pins / G24 q-I / 18, 36, 40, 55 W 2 x MASTER PL-S 4 Pin / 2G7 / 11 W	Optical cover	Decorative opal cover (OD)
Lamp included	Yes (lamp color 830 or 840) No	Connection	Wieland connector (W) Push-in connector (PI)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP), not for PL-S 11 W and PL-L 18 W versions High Frequency Regulator; DALI (HFD), not for PL-S 11 W and PL-L 18 W versions High Frequency Regulator (HFR), not for PL-S 11 W and PL-L 18 W versions High Frequency Matchbox (HFM), only for PL-S 11 W and PL-L 18 W versions	Option	Euro fuse (FU) included Protection foil (FL) to protect the optic during installation
		Material	Zinc coated steel, white
		Installation	Individual; lay-in in exposed ceiling grids or with ceiling brackets in concealed ceiling grids or plasterboard ceilings
		Accessory	Suspension bracket set
		Remarks	Housing has safety suspension points for chain, cable or threaded rod Air-handling functionality via housing (not for 11 and 18 W versions)
Optic	High-gloss optic, double parabolic (C6) Semi-high-gloss optic, double parabolic (D6) Matt optic, double parabolic louvers (M6)	Main applications	Office, education, healthcare, recreation, retail, industry



FBS330 2 x 11, 18 W

Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6) or high-reflectance 3D lamellae (C6-H)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L18W/840 C6 PI IP	1.25	700380 00
FBS330 2xPL-L18W/840 HFM C6 PI IP SC	1.25	704029 00

Please contact your local Philips representative for additional configurations



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L18W/840 D6 PI IP	1.25	700397 00
FBS330 2xPL-L18W/840 HFM D6 PI IP SC	1.25	704036 00

Please contact your local Philips representative for additional configurations

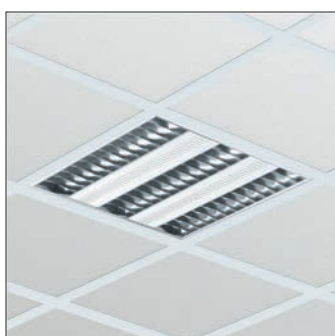


Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L18W/840 M6 PI IP	1.15	700403 00
FBS330 2xPL-L18W/840 HFM M6 PI IP SC	1.25	704043 00
FBS330 2xPL-S/4PI 1W/840 HFM M6 PI IP	1.25	700373 00
FBS330 2xPL-S/4PI 1W/840 HFM M6 PI IP SC	1.25	704012 00

Please contact your local Philips representative for additional configurations



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L40W/840 HFP C6 PI IP FL	5.00	700472 00
FBS330 2xPL-L55W/840 HFP C6 PI IP FL	5.70	700502 00

Please contact your local Philips representative for additional configurations



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L40W/840 HFP D6 PI IP FL	5.70	700489 00
FBS330 2xPL-L55W/840 HFP D6 PI IP FL	4.50	700519 00

Please contact your local Philips representative for additional configurations

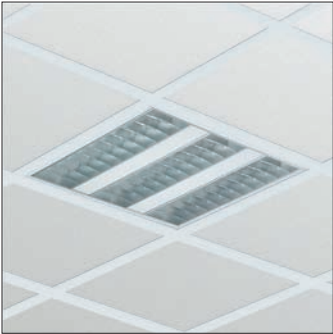


Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 2xPL-L40W/840 HFP M6 PI IP FL	5.70	700496 00
FBS330 2xPL-L55W/840 HFP M6 PI IP FL	5.70	700526 00

Please contact your local Philips representative for additional configurations

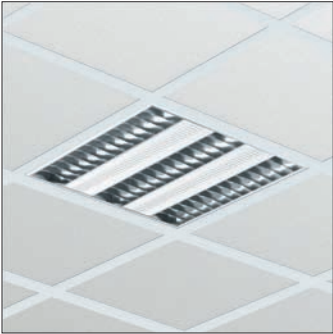


Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC high-gloss high-quality aluminum optic with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 3xPL-L40W/840 HFP C6 PI IP	5.70	700410 00
FBS330 3xPL-L55W/840 HFP C6 PI IP FL	5.70	700441 00

Please contact your local Philips representative for additional configurations



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC semi-high-gloss high-quality aluminum optic with 3D lamellae (D6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 3xPL-L40W/840 HFP D6 PI IP	5.70	700427 00
FBS330 3xPL-L55W/840 HFP D6 PI IP	5.70	700458 00

Please contact your local Philips representative for additional configurations



Indolight FBS330 recessed luminaire with PL-L or PL-S compact fluorescent lamps and OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS330 3xPL-L40W/840 HFP M6 PI IP	5.70	700434 00
FBS330 3xPL-L55W/840 HFP M6 PI IP FL	5.70	700465 00

Please contact your local Philips representative for additional configurations

Accessories



Suspension bracket set for recessed mounting in false ceilings with concealed profiles

Product ID	EOC
ZBS300 SMB (4PCS)	598147 99
ZBS300 SMB	598161 99



Impala TBS I 60

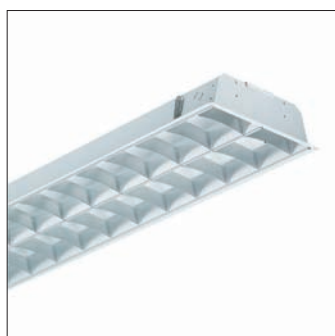


Impala – functional and convenient

Impala TBS I 60 is a functional recessed luminaire for 2, 3 or 4 TL-D fluorescent lamps. It offers a wide range of optics as well as a prismatic plate. The optics/plate are fitted to the housing by means of a clip for easy installation and maintenance. An external connection system enables the mains connection to be made without opening the luminaire. The luminaire fits in visible profile ceilings as standard and, using accessories, in concealed and plaster ceilings.

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2-lamp



3-lamp

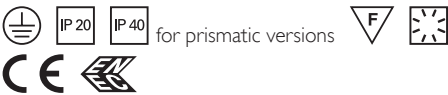


4-lamp

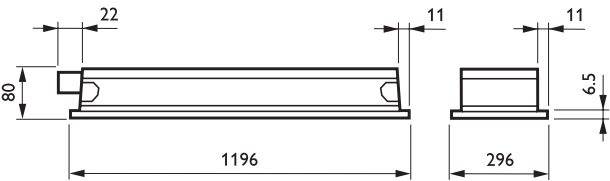


	Impala
Type	TBS I 60
Ceiling grid/system	Module size: 600 x 600, 300 x 1200 mm Exposed tee, concealed fixed and plasterboard ceilings
Light source	Fluorescent: 3 x or 4 x MASTER TL-D / G13 / 18 W 2 x MASTER TL-D / G13 / 36 W
Lamp included	Yes (lamp color 830 or 840) No
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Inductive (I) Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR) Electronic Included (EI)
Optic	High-gloss optic, double parabolic closed, limit 1000 cd (C6-1000cd) Matt optic, double parabolic louvers, closed (M6) Matt mirror; ribbed cross louvers (M2) Lamellae louver; flat cross louvers (L1) High-gloss mirror; facetted (C3)

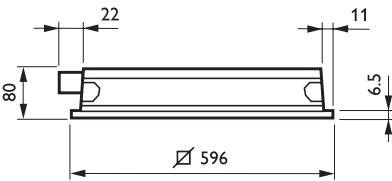
Optical cover	Prismatic cover (P) (for 18 W version only)
Connection	Push-in connector (PI) Plug-in connector: GST (GST)
Option	Lighting controls: Luxsense daylight controller (LX) Euro fuse (FU) included Cord 2.10 m with europlug (C2100CE)
Material	Pre-lacquered steel, white
Installation	Individual; in visible ceiling profiles, or with accessories in concealed and plaster ceilings
Accessory	Suspension bracket set, plaster clips, spacers
Remarks	Mains connection outside housing (without opening the luminaire) Housing has safety suspension points for chain, cable or threaded rod
Main applications	Office, recreation, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS I 60 2 x TL-D



TBS I 60 3, 4 x TL-D

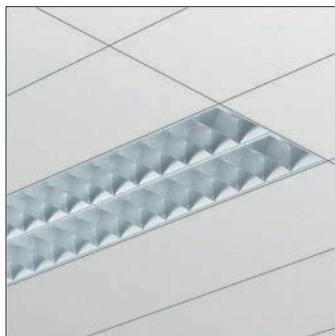


Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and an OLC high-gloss high-quality aluminum optic with 3D lamellae, limit 1000 cd (C6-1000cd)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 2xTL-D36W IC C6-1000 PI	3.90	571394 00
TBS I 60 2xTL-D36W EI C6-1000 PI	2.96	571400 00
TBS I 60 2xTL-D36W HFP C6-1000 PI	3.03	574623 00

Please contact your local Philips representative for additional configurations

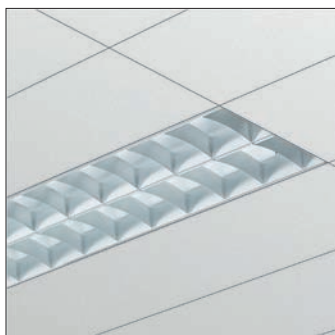


Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and an OLC matt high-quality aluminum optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 2xTL-D36W IC M6 PI	4.42	296685 00
TBS I 60 2xTL-D36W EI M6 PI	3.54	296739 00

Please contact your local Philips representative for additional configurations

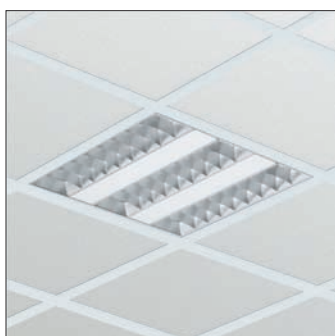


Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and a matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 2xTL-D36W IC M2 PI	3.91	296678 00
TBS I 60 2xTL-D36W EI M2 PI	3.03	296722 00
TBS I 60 2xTL-D36W HFP M2 PI	3.03	683386 00

Please contact your local Philips representative for additional configurations



Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and an OLC matt high-quality aluminium optic with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 3xTL-D36W IC M6 PI	8.12	296890 00
TBS I 60 3xTL-D36W EI M6 PI	6.38	296951 00
TBS I 60 3xTL-D18W IC M6 PI	4.35	297033 00

Please contact your local Philips representative for additional configurations

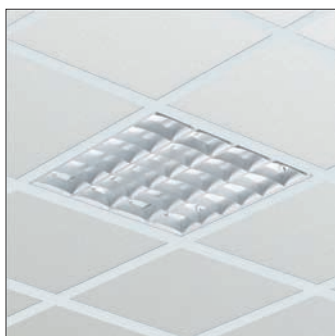


Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and an OLC high-gloss high-quality aluminum optic with 3D lamellae, limit 1000 cd (C6-1000cd)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 4xTL-D18W IC C6-1000 PI	3.51	697956 00
TBS I 60 4xTL-D36W IC C6-1000 PI	7.74	697963 00
TBS I 60 4xTL-D18W HFP C6-1000 PI	2.74	574593 00
TBS I 60 4xTL-D18W EI C6-1000 PI	2.85	574616 00

Please contact your local Philips representative for additional configurations



Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and a matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 4xTL-D36W IC M2 PI	7.42	297309 00
TBS I 60 4xTL-D36W EI M2 PI	6.02	297361 00
TBS I 60 4xTL-D18W EI M2 PI	3.00	297880 00
TBS I 60 4xTL-D18W HFP M2 PI	3.20	297958 00

Please contact your local Philips representative for additional configurations



Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and a high-gloss high-quality aluminum optic faceted with matt aluminum lamellae (C3)

Preferred selection		
Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 4xTL-D 18W IC C3 PI	3.88	296364 00
TBS I 60 4xTL-D 36W IC C3 PI	7.42	297279 00
TBS I 60 4xTL-D 18W EI C3 PI	3.00	297859 00
TBS I 60 4xTL-D 18W I C3 PI	3.83	298511 00

Please contact your local Philips representative for additional configurations



Impala TBS I 60 recessed luminaire with TL-D fluorescent lamps and a prismatic cover (P)

Preferred selection		
Product ID	Weight (kg)	European Order Code (EOC)
TBS I 60 4xTL-D 18W IC P PI	4.29	570793 00
TBS I 60 4xTL-D 18W HFP P PI	3.33	570816 00

Please contact your local Philips representative for additional configurations

Accessories



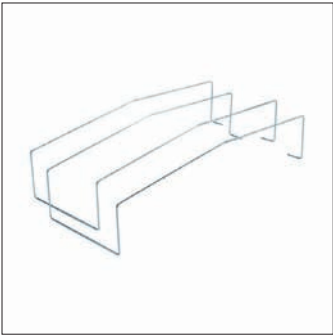
Suspension bracket set for recessed mounting in false ceilings with concealed profile

Product ID	EOC
ZBS I 60 MB (4PCS)	299600 99



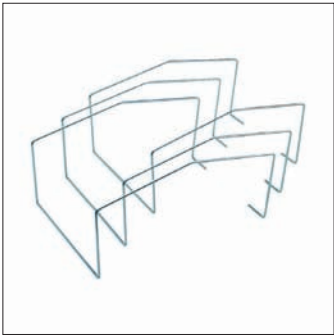
Set of plaster clips for recessed mounting in plaster ceilings and only for the 3 and 4 x 18 W versions

Product ID	EOC
ZBS I 60 PLA (40PCS)	299662 99



Spacer to create a safety space around the luminaire

Product ID	EOC
ZBS I 60 SPA-F4 (20PCS)	299624 00



Spacer F covered for 2 lamps

Product ID	EOC
ZBS I 60 SPA-F2 (30PCS)	299648 99



Impala FBS I 60



Impala – solid performance

Impala FBS I 60 is a square recessed luminaire measuring 600 x 600 mm for PL-L fluorescent lamps. It offers a choice of two optics – C6 and M6 with Omnidirectional Luminance Control (OLC) – and is available in 2- and 3-lamp versions.

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	Impala
Type	FBS I 60
Ceiling grid	Module size: 600 mm Exposed, concealed fixed and plasterboard ceilings
Light source	Compact fluorescent: 2 x or 3 x MASTER PL-L 4P / 2G11 / 36, 55 W
Lamp included	Yes (lamp color 840)
Gear	Electro magnetic, 230 V / 50 Hz: Inductive (I) Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP)

Optic	High-gloss optic, double parabolic, closed (C6) Matt optic, double parabolic louvers, closed (M6)
Connection	Push-in connector (PI)
Option	Emergency lighting: 3 hours (EL3)
Material	Pre-lacquered steel, white
Installation	Individual; in visible ceiling profiles, or with accessories in concealed and plaster ceilings
Accessory	Suspension bracket set, plaster clips, spacers
Main applications	Office, recreation, retail

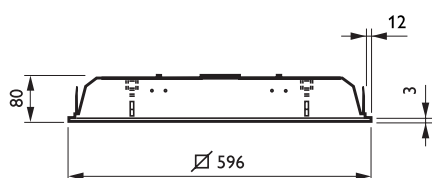



 (not with electro magnetic version without spacers)

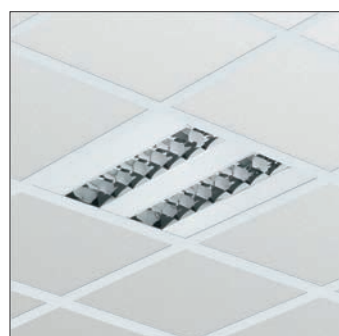
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Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



FBS I 60

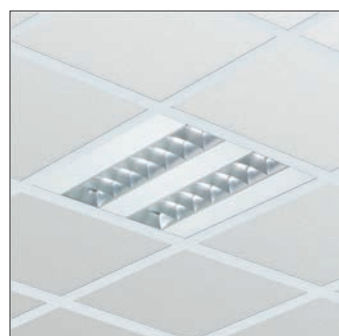


Impala FBS I 60 recessed luminaire with compact fluorescent PL-L lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS I 60 2xPL-L36W/840 IC C6 PI	4.31	697987 00
FBS I 60 2xPL-L36W/840 HFP C6 PI	3.40	697994 00
FBS I 60 2xPL-L55W/840 HFP C6 PI	3.44	698045 00
FBS I 60 2xPL-L55W/840 HFP C6 EL3 PI	3.44	571974 00

Please contact your local Philips representative for additional configurations



Impala FBS I 60 recessed luminaire with compact fluorescent PL-L lamps and OLC matt aluminum optics with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS I 60 2xPL-L36W/840 HFP M6 PI	3.40	698007 00
FBS I 60 2xPL-L55W/840 HFP M6 PI	3.44	698052 00
FBS I 60 2xPL-L36W/840 IC M6 PI	4.31	698083 00
FBS I 60 2xPL-L55W/840 HFP M6 EL3 PI	3.44	571981 00

Please contact your local Philips representative for additional configurations



Impala FBS I 60 recessed luminaire with compact fluorescent PL-L lamps and OLC high-gloss aluminum optics with 3D lamellae (C6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS I 60 3xPL-L36W/840 IC C6 PI	4.78	698014 00
FBS I 60 3xPL-L36W/840 HFP C6 PI	3.53	698021 00

Please contact your local Philips representative for additional configurations



Impala FBS I 60 recessed luminaire with compact fluorescent PL-L lamps and OLC matt aluminum optics with 3D lamellae (M6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS I 60 3xPL-L36W/840 HFP M6 PI	3.53	698038 00
FBS I 60 3xPL-L36W/840 IC M6 PI	4.78	698090 00

Please contact your local Philips representative for additional configurations

Accessories



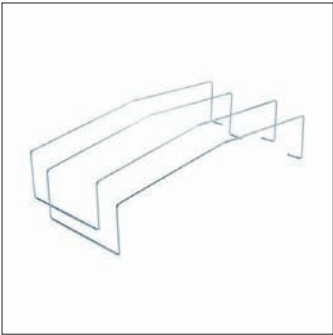
Suspension bracket set for recessed mounting in false ceilings with concealed profile

Product ID	EOC
ZBS I 60 MB (4PCS)	299600 99



Set of plaster clips for recessed mounting in plaster ceilings and only for the 3 and 4 x 18 W versions

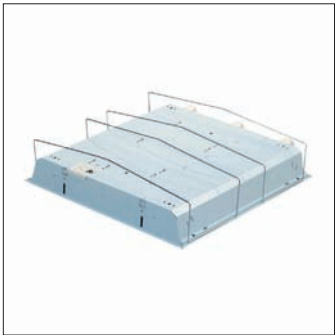
Product ID	EOC
ZBS I 60 PLA (40PCS)	299662 99



Spacer to create a safety space around the luminaire

Product ID	EOC
ZBS I 60 SPA-F4 (20PCS)	299624 00

Spacers can be mounted quickly onto the housing of the luminaire





TBSI 47



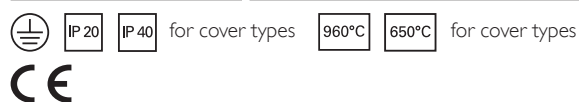
TBSI 47 – for excellence and economy

TBSI 47 is a modular recessed luminaire for TL-D fluorescent lamps in office and shop applications. It features a wide range of performance optics and a low height of only 78 mm. If used with electronic gear, energy consumption is reduced by up to 25%.

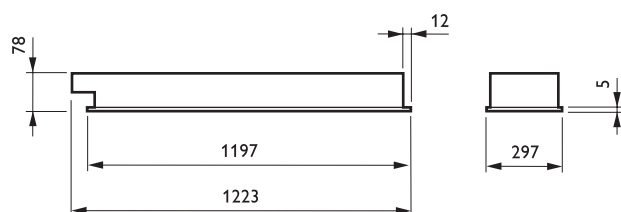
TBSI47

Type	TBSI47
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee, concealed tee, and plasterboard ceilings
Light source	Fluorescent: 2 x MASTER TL-D / G13 / 36 W (rectangular version) 4 x MASTER TL-D / G13 / 18 W (square version)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic Ballast Standard (EBS) Electronic Ballast Economy (EBE) for 2 x 36 W Electro magnetic, 220 V, 230 V or 240 V / 50 Hz: Inductive (I) Parallel compensated (IC)
Optic	High-gloss optic, parabolic louvers (C5) High-gloss mirror, faceted (C3) Matt mirror, ribbed cross louvers (M2)

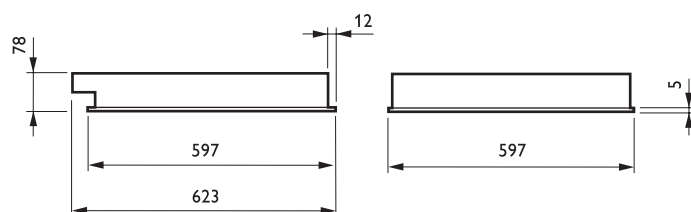
Optical cover	Prismatic cover (P) Opal cover (O)
Connection	Screw connection
Option	Available on request: Emergency lighting, 3 hours Gear: High Frequency Performer or Regulator Connection: Wieland
Material	Housing: post-painted steel, white RAL9010 Optic: anodized aluminum Optical cover: PET
Installation	Individual; lay-in exposed ceiling grid or with ceiling brackets in concealed ceiling grids or plasterboard ceilings
Accessory	Bracket ZBSI47 SMB SET40 for concealed ceiling (40 pcs suitable to install 10 luminaires)
Main applications	Office, recreation, retail



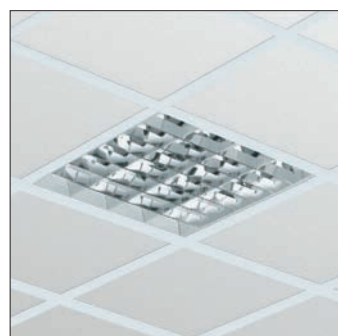
Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBSI47 2 x TL-D



TBSI47 4 x TL-D

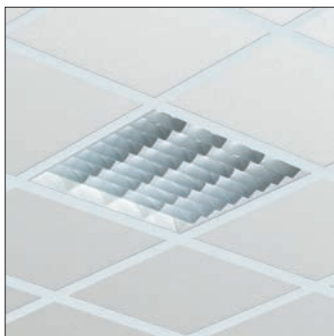


TBSI47 recessed luminaire with TL-D fluorescent lamps and a high-gloss high-quality aluminum optic with parabolic lamellae (C5)

Preferred selection

Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz C5	9131 010 933 xx
TBSI47 4xTL-D18W IC 240V-50Hz C5	9131 010 935 xx
TBSI47 4xTL-D18W EBS C5	9131 010 936 xx
TBSI47 2xTL-D36W IC 230V-50Hz C5	9131 010 938 xx
TBSI47 2xTL-D36W IC 240V-50Hz C5	9131 010 940 xx
TBSI47 2xTL-D36W EBS C5	9131 010 942 xx

Please contact your local Philips representative for additional configurations



TBSI47 recessed luminaire with TL-D fluorescent lamps and a matt high-quality aluminum optic with profiled lamellae (M2)



TBSI47 recessed luminaire with TL-D fluorescent lamps and a prismatic cover (P)

Preferred selection

Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz M2	9131 010 911 xx
TBSI47 4xTL-D18W IC 240V-50Hz M2	9131 010 913 xx
TBSI47 4xTL-D18W EBS M2	9131 010 914 xx
TBSI47 2xTL-D36W IC 230V-50Hz M2	9131 010 916 xx
TBSI47 2xTL-D36W IC 240V-50Hz M2	9131 010 918 xx
TBSI47 2xTL-D36W EBS M2	9131 010 920 xx
TBSI47 4xTL-D18W IC 230V-50Hz C3	9131 010 922 xx
TBSI47 4xTL-D18W IC 240V-50Hz C3	9131 010 924 xx
TBSI47 4xTL-D18W EBS C3	9131 010 925 xx
TBSI47 2xTL-D36W IC 230V-50Hz C3	9131 010 927 xx
TBSI47 2xTL-D36W IC 240V-50Hz C3	9131 010 929 xx
TBSI47 2xTL-D36W EBS C3	9131 010 931 xx

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz P	9131 010 944 xx
TBSI47 4xTL-D18W IC 240V-50Hz P	9131 010 946 xx
TBSI47 4xTL-D18W EBS P	9131 010 947 xx
TBSI47 2xTL-D36W IC 230V-50Hz P	9131 010 949 xx
TBSI47 2xTL-D36W IC 240V-50Hz P	9131 010 951 xx
TBSI47 2xTL-D36W EBS P	9131 010 953 xx
TBSI47 4xTL-D18W IC 230V-50Hz O	9131 010 955 xx
TBSI47 4xTL-D18W IC 240V-50Hz O	9131 010 957 xx
TBSI47 4xTL-D18W EBS O	9131 010 958 xx
TBSI47 2xTL-D36W IC 230V-50Hz O	9131 010 960 xx
TBSI47 2xTL-D36W IC 240V-50Hz O	9131 010 962 xx
TBSI47 2xTL-D36W EBS O	9131 010 964 xx

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Order Code
ZBSI47 SMB SET40	Mounting brackets	9131 010 965 xx



TBS047



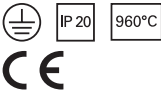
TBS047 – attractive value

TBS047 is a basic modular recessed luminaire for TL-D fluorescent lamps in offices and shops. It features a low height of 78 mm. Energy consumption can be reduced by up to 25% if the luminaire is used with electronic gear.

TBS047

Type	TBS047
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee ceilings
Light source	Fluorescent: 2 x MASTER TL-D / G13 / 36 W (rectangular version) 4 x MASTER TL-D / G13 / 18 W (square version)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic Ballast Economy (EBE) for 2 x 36 W Electronic Ballast Standard (EBS) for 4 x 18 W Electro magnetic, 220 V, 230 V or 240 V / 50 Hz: Inductive (I) Parallel compensated (IC)

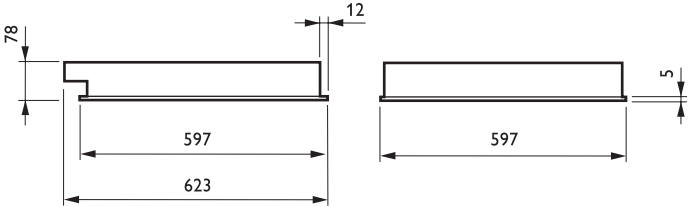
Optic	Matt mirror; profiled cross louvers (M)
Connection	Screw connection
Material	Housing: post-painted steel, white RAL9010 Optic: aluminum
Installation	Individual; lay-in exposed ceiling grid
Main applications	Office, recreation, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS047 2 x TL-D



TBS047 4 x TL-D



TBS047 recessed luminaire with TL-D fluorescent lamps and a matt aluminum optic with profiled lamellae

Please contact your local Philips representative for ordering codes

FBSI 63



FBSI 63 – softlight

FBSI 63 is an indirect 'softlight' luminaire for 2 PL-L compact fluorescent lamps, with symmetrical light distribution. Optics are supplied with the luminaires. It is fully integrated for mounting in modular false ceilings (600 x 600 mm) via a quick connection facility.

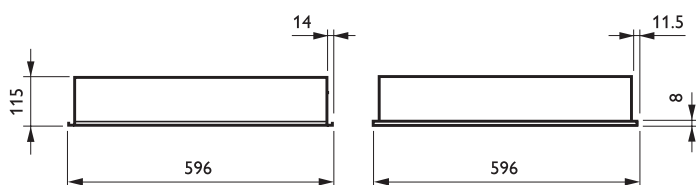
www.philips.com/lighting

FBSI63	
Type	FBSI63
Ceiling system	Module size: 600 mm Exposed tee ceilings
Light source	Compact fluorescent: 1 x or 2 x MASTER PL-L 4 pin / G24 q-I / 36, 55 W
Lamp included	Yes (light color 840 or 830)
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR)

Light distribution	Indirect (IND)
Connection	Wieland connector (W) Push-in connector (PI)
Option	Safety cable (SC)
Material	Pre-lacquered sheet steel, white
Installation	Individual; lay-in in exposed ceiling grids
Main applications	Offices, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



FBSI63



FBSI63 recessed luminaire with
PL-L compact fluorescent lamps and
symmetrical indirect light distribution

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBSI63 2xPL-L55W HFP IND PI	3.70	789637 00
FBSI63 2xPL-L36W HFP IND PI	3.70	789644 00
FBSI63 2xPL-L36W IC IND PI	4.00	789651 00

Please contact your local Philips representative for additional configurations

TBS I 05



TBS I 05 – excellent wall-washer

TBS I 05 is a recessed luminaire for a TL-D or TL5 (16 mm) fluorescent lamp, for exposed ceiling grids or other ceiling types, modular in length. A main matt aluminum reflector provides excellent asymmetrical light distribution for high vertical illuminances (wall-washing). TBS I 05 is intended for individual mounting but can also be installed in lines.

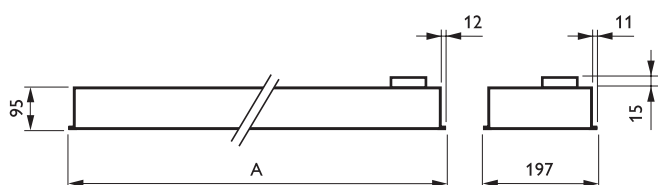
www.philips.com/lighting

TBS105	
Type	TBS105
Ceiling grid	Module size: 300 mm Concealed fixed ceilings
Light source	Fluorescent: 1 × MASTER TL-D / G13 / 36, 38, 58 W 1 × MASTER TL5 / G5 / 14, 24, 28, 35, 49, 54, 80 W
Lamp included	Yes (lamp color 830 or 840) No
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR)

Optic	Asymmetrical mirror (A)
Housing configuration	Housing left (of matching pair) (H-L) Housing right (of matching pair) (H-R)
Connection	Push-in connector (PI)
Option	Safety cable (SC)
Material	Housing: zinc-coated sheet steel, white
Installation	Individual; with ceiling brackets in concealed ceiling grids Luminaires can be installed in lines (end to end), with ceiling T-bar in between
Accessory	Suspension bracket set
Main applications	Office, education, healthcare, retail

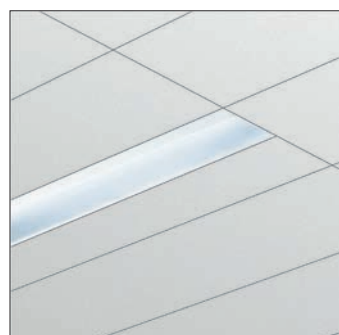


Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



TBS105

	A
14W, 24W	575
28W, 36W, 38W, 54W	1175
35W, 49W, 58W	1475



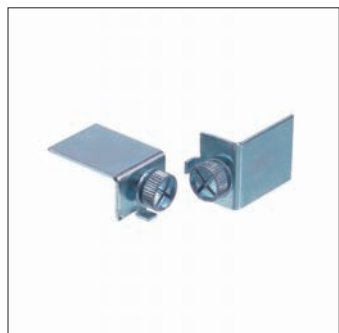
TBS105 recessed luminaire with TL5 or TL-D fluorescent lamp and asymmetric light distribution

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
TBS105 1xTL5-14W/840 HFP A PI SC	2.70	639413 00
TBS105 1xTL5-28W/840 HFP A PI SC	3.50	639420 00
TBS105 1xTL5-35W/840 HFP A PI SC	4.70	639437 00
TBS105 1xTL5-49W/840 HFP A PI SC	3.79	639857 00
TBS105 1xTL5-54W/840 HFP A PI SC	3.50	639864 00

Please contact your local Philips representative for additional configurations

Accessories



Brackets for plaster ceiling

Product ID	EOC
ZBS450 SMB-S	639239 99
ZBS450 SMB-L	745015 99

FBS I 05



FBS I 05 – excellent wall-washer

FBS I 05 is a functional recessed luminaire with a PL-L compact fluorescent lamp, modular in length. A main reflector provides excellent asymmetrical light distribution for high vertical illuminances (wall-washing).

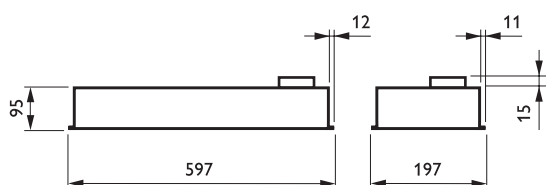
www.philips.com/lighting

FBS105	
Type	FBS105
Ceiling grid	Module size: 300 mm Exposed tee ceiling
Light source	Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2GI I / 36, 40, 55 W
Lamp included	Yes (lamp color 830 or 840) No
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Inductive (I) Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR)

Optic	Asymmetrical mirror (A)
Connection	Push-in connector (PI)
Material	Housing: zinc-coated sheet steel, white
Installation	Individual; lay-in in exposed ceiling grids Luminaires can be installed in lines (end to end), with ceiling T-bar in between
Accessory	Suspension bracket set
Main applications	Office, education, healthcare, retail



Where relevant, for detailed descriptions of Lighting Controls we refer you to chapter 11, and descriptions for e.g. optics/optical covers, lamps data, photometrical diagrams, etc. to the respective sections in chapter 12.



FBS105



FBS105 recessed luminaire with
PL-L compact fluorescent lamp and
asymmetrical light distribution

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FBS105 1xPL-L36W/830 I A PI	3.30	635897 00
FBS105 1xPL-L55W/840 HFP A PI	2.70	709802 00
FBS105 2xPL-L55W/840 HFP A PI	2.70	567373 00

Please contact your local Philips representative for additional configurations